



**FCC 47 CFR PART 15 SUBPART B & C
INDUSTRY CANADA RSS-210 ISSUE 8**

ORIGINAL EQUIPMENT TEST REPORT

FOR

RF Interface

MODEL NUMBER (HVIN): GT-HKP

**FCC ID: JPZ0114
IC: 2851A-JPZ0114**

REPORT NUMBER: 11121880

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Prepared for
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7200 SUTER RD
COOPERSBURG PA, 18036, USA**

Prepared by
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NVLAP Lab code: 100414-0

Revision History

| <u>Rev.</u> | <u>Issue Date</u> | <u>Revisions</u> | <u>Revised By</u> |
|-------------|-------------------|------------------|-------------------|
| -- | | | |

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: LUTRON ELECTRONICS CO INC.
7200 SUTER RD
COOPERSBURG, PA, 18036, USA

EUT DESCRIPTION: Dimmer Switch with wireless connectivity

MODEL (HVIN): GT-HKP

SERIAL NUMBER: Non-Serialized

DATE TESTED: 25 January 2016 – 02 February 2016

| APPLICABLE STANDARDS | |
|--|--------------|
| STANDARD | TEST RESULTS |
| FCC PART 15 SUBPART C | Pass |
| *FCC PART 15 SUBPART B & ICES-003, Issue 6 | Pass |
| INDUSTRY CANADA RSS-210 Issue 8 | Pass |
| INDUSTRY CANADA RSS-GEN Issue 4 | Pass |
| *Includes testing for digital and receive modes – not required for certification | |

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL LLC based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL LLC By: Michael Ferrer

Tested By: Bart Mucha



UL LLC

UL LLC

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, ANSI C63.4-2014, FCC CFR 47 Part 15, RSS-GEN Issue 4, and RSS-210 Issue 8, ICES-003 Issue 6

** some of the standards above may not be in the NVLap scope of accreditations. The lab is fully equipped to perform testing per those standards and those will be added during the next scope review process.*

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 333 Pfingsten Road, Northbrook, IL 60062 USA. IC test site 2180-A

UL NBK is accredited by NVLAP, Laboratory Code 100414-0. The full scope of accreditation can be viewed at <http://www.nist.gov>

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Sample Calculations

Radiated Field Strength and Conducted Emissions data contained within this report is calculated on the following basis:

Field Strength (dBuV/m) = Meter Reading (dBuV) + AF (dB/m) - Gain (dB) + Cable Loss (dB)

Conducted Voltage (dBuV) = Meter Reading (dBuV) + Cable Loss (dB) + LISN IL (dB)

Conducted Current (dBuA) = Meter Reading (dBuV) + Cable Loss (dB) - Transducer Factor (dBohms)

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| Test | Range | Equipment | Uncertainty k=2 |
|--------------------|-------------|---------------|-----------------|
| Radiated Emissions | 30-200MHz | Bicon 3m Horz | 3.30dB |
| Radiated Emissions | 30-130MHz | Bicon 3m Vert | 4.84dB |
| Radiated Emissions | 130-200MHz | Bicon 3m Vert | 4.94dB |
| Radiated Emissions | 200-1000MHz | LogP 3m Horz | 3.46dB |
| Radiated Emissions | 200-1000MHz | LogP 3m Vert | 4.98dB |
| Radiated Emissions | 1-6GHz | Horn | 5.02dB |

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a switch with transceiver for use in wall applications that operates on a single channel at a time in the 431-437MHz range.

5.2. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an integral monopole antenna constructed of a wire.

5.3. SOFTWARE AND FIRMWARE

The EUT driver software installed during testing was: 0796372

5.4. WORST-CASE CONFIGURATION AND MODE

Testing was conducted for Radiated and Conducted emissions on the low, middle and high channel. EUT is mounted in single orientation only.

5.5. MODIFICATIONS

No modifications were made during testing.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

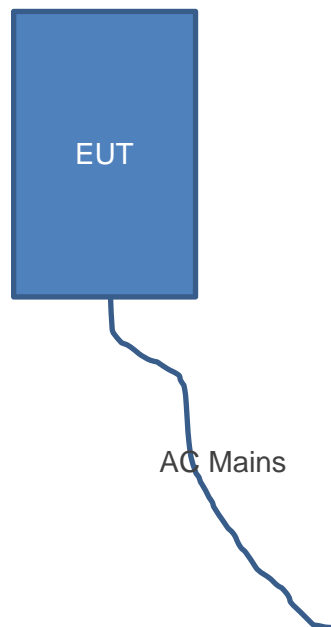
| Peripheral Support Equipment List | | | | |
|-----------------------------------|--------------|-------|---------------|--------|
| Description | Manufacutrer | Model | Serial Number | FCC ID |
| none | - | - | - | - |

I/O CABLES

| I/O Cable List | | | | | | |
|----------------|----------|----------------------|----------------|--------------------|------------------|---------|
| Cable No | Port | # of identical ports | Connector Type | Cable Type | Cable Length (m) | Remarks |
| 1 | AC Mains | 1 | 3-wire | standard wire cord | 1.5m | none |

TEST SETUP

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Conducted Emissions

| Description | Manufacturer | Model | Identifier | Cal. Date | Cal. Due Date |
|-------------------|-------------------|-----------------|------------|----------------|----------------|
| EMI Test Receiver | Rohde & Schwarz | ESR | EMC4377 | April 23, 2015 | April 23, 2016 |
| Transient Limiter | Electro-Metrics | EM7600-2 | EMC4224 | N/A | N/A |
| HighPass Filter | Solar Electronics | 2803-150 | 885551 | N/A | N/A |
| Attenuator | HP | 8494B | 2831A00838 | N/A | N/A |
| LISN - L1 | Solar | 8602-50-TS-50-N | EMC4052 | Jan 09, 2015 | Jan 31, 2016 |
| LISN - L2 | Solar | 8602-50-TS-50-N | EMC4064 | Jan 09, 2015 | Jan 31, 2016 |

Radiated Emissions including Duty Cycle Measurements & Bandwidth Measurements

| Description | Manufacturer | Model | Identifier | Cal. Date | Cal. Due Date |
|---------------------|-----------------|--------------|------------|-----------|---------------|
| EMI Test Receiver | Rohde & Schwarz | ESU | EMC4323 | 20160102 | 20170131 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | EMC4328 | 20151118 | 20161118 |
| Log-P Antenna | Chase | UPA6109 | EMC4258 | 20150427 | 20160429 |
| BiCon Antenna (RTP) | Schaffner | VBA6106A | AT0025 | 20151008 | 20161031 |
| Loop Antenna | EMCO | 6502/1 | EMC4026 | 20150420 | 20160430 |
| Antenna Array | UL | BOMS | EMC4276 | 20151115 | 20161115 |
| Spectrum Analyzer | Agilent | N9030A (PXA) | EMC4360 | 20160108 | 20170131 |

7. ANTENNA PORT TEST RESULTS

7.1. 20 dB AND 99% BW

LIMITS

FCC §15.231 (c)

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.25% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

IC RSS-210, A1.1.3

For the purpose of Section A1.1, the 99% Bandwidth shall be no wider than 0.25% of the center frequency for devices operating between 70-900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency.

TEST PROCEDURE

ANSI C63.10

The transmitter output is connected to the spectrum analyzer or near field probe is used.

20dB Bandwidth: The RBW is set to 10 KHz. The VBW is set to 3 times or larger than the RBW. The sweep time is coupled. Bandwidth is determined at the points 20 dB down from the modulated carrier.

99% Bandwidth: The RBW is set to 1% to 5% of the 99 % bandwidth. The VBW is set to 3 times or larger than the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

RESULTS

No non-compliance noted

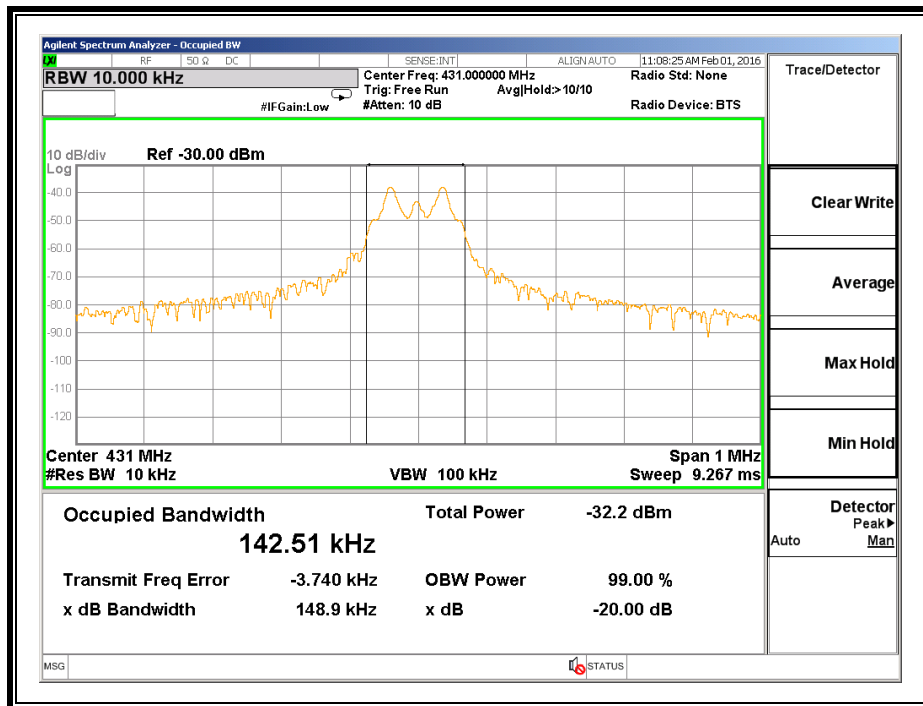
20dB Bandwidth

| Frequency (MHz) | 20dB Bandwidth (kHz) | Limit (kHz) | Margin (kHz) |
|-----------------|----------------------|-------------|--------------|
| 431 | 148.9 | 1077.5 | -928.6 |
| 434.7 | 149.9 | 1086.75 | -936.9 |
| 437 | 148.3 | 1092.5 | -944.2 |

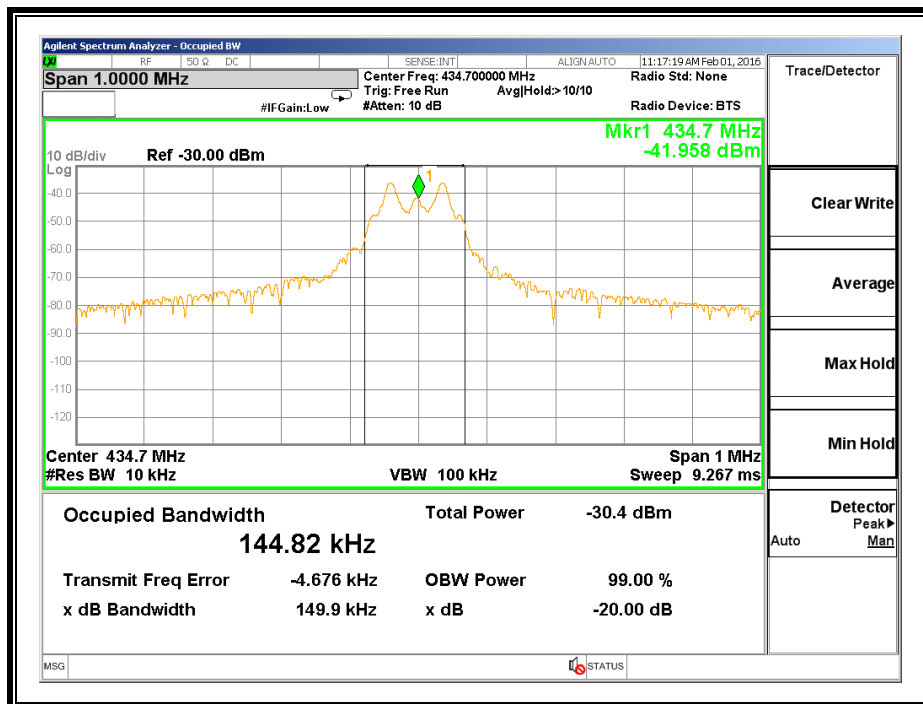
99% Bandwidth

| Frequency (MHz) | 99% Bandwidth (kHz) | Limit (kHz) | Margin (kHz) |
|-----------------|---------------------|-------------|--------------|
| 431 | 140.34 | 1077.5 | -937.2 |
| 434.7 | 139.27 | 1086.75 | -947.5 |
| 437 | 144.29 | 1092.5 | -948.2 |

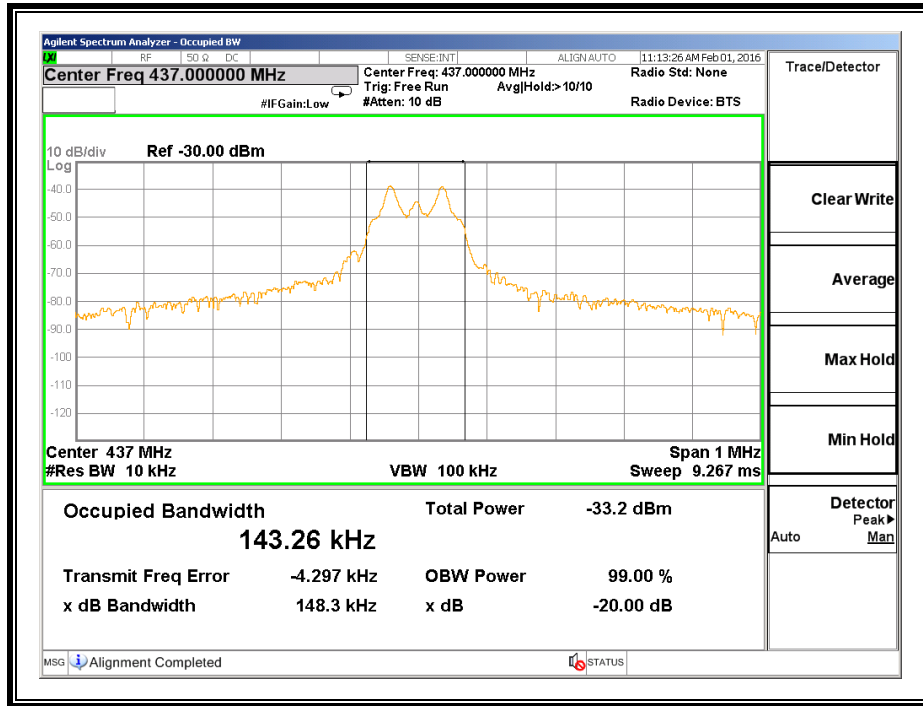
20dB BANDWIDTH Low Channel



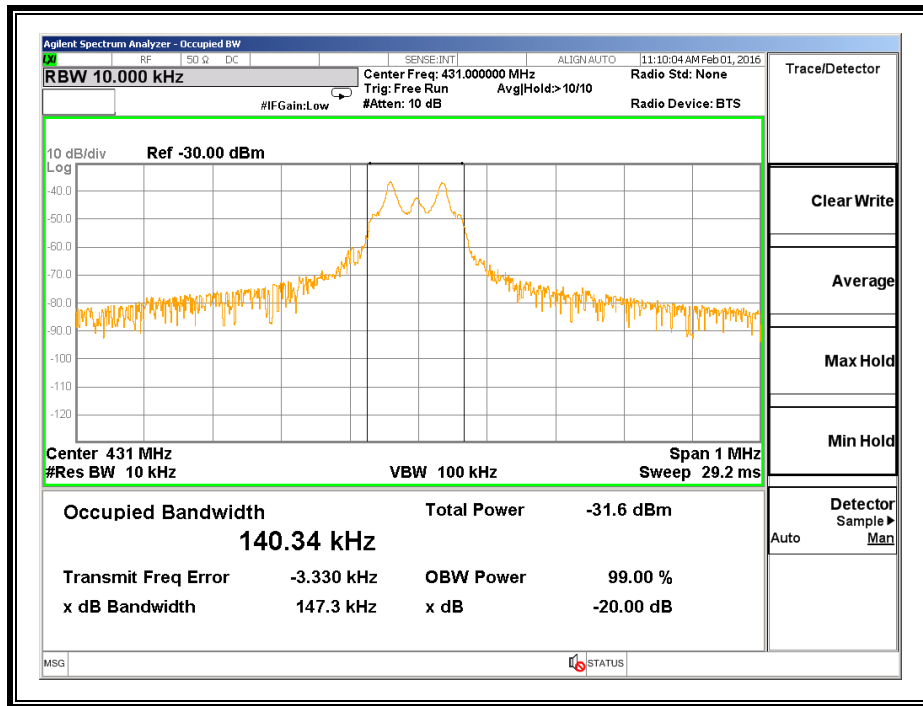
20dB BANDWIDTH Middle Channel



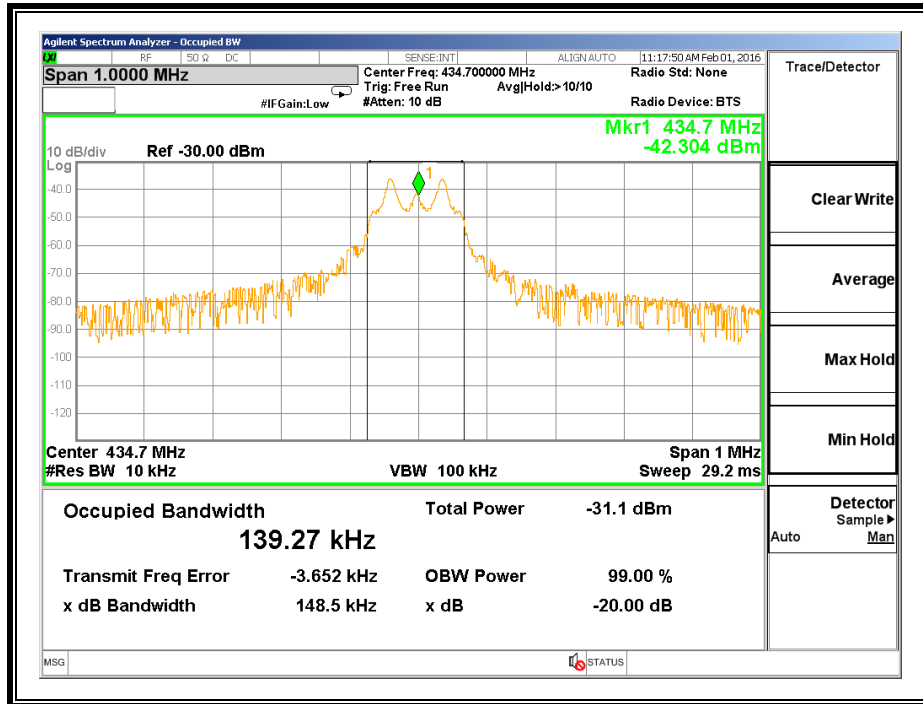
20dB BANDWIDTH High Channel



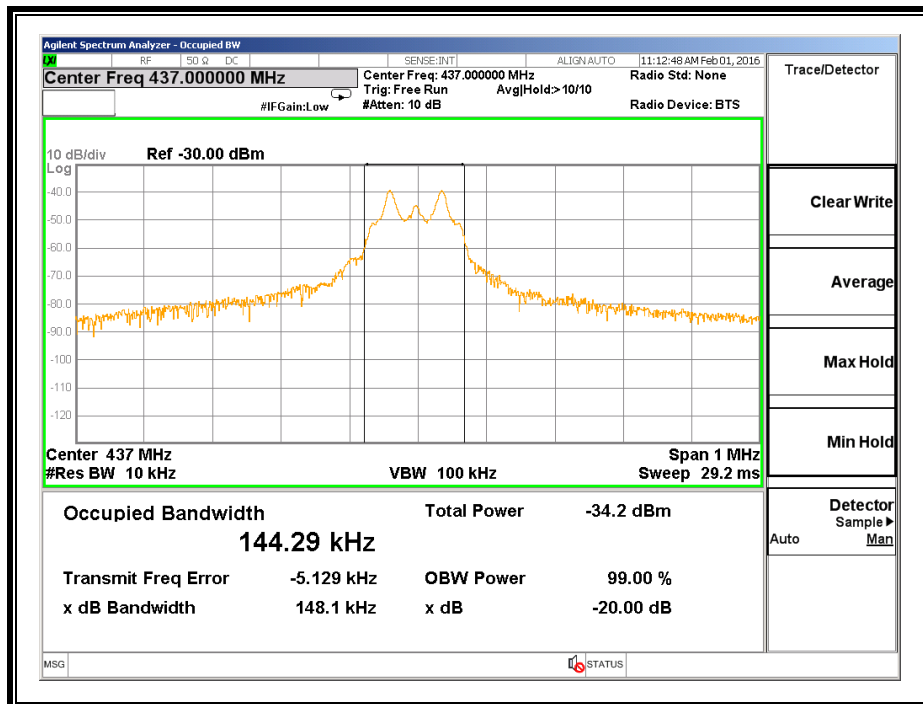
99% BANDWIDTH Low Channel



99% BANDWIDTH Middle Channel



99% BANDWIDTH High Channel



7.2. DUTY CYCLE

LIMITS

FCC §15.35 (c)

The measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subject to notification or verification.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer or radiated field strength. The RBW is set to 1000 kHz and the VBW is set to 1000 kHz. The sweep time is coupled and the span is set to 0 Hz. The number of pulses is measured and calculated in a 100 ms scan.

CALCULATION

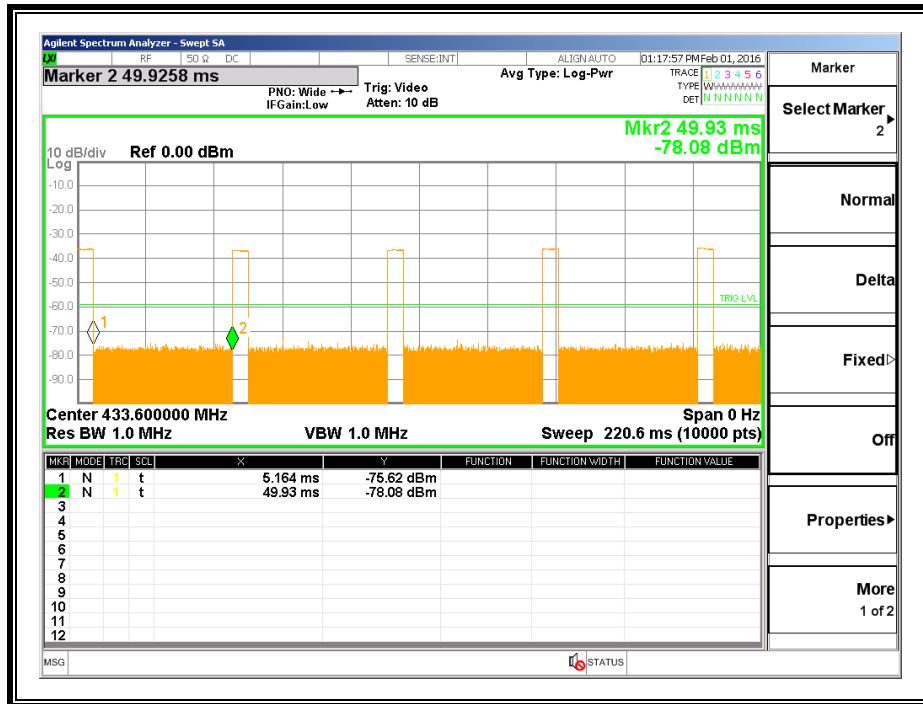
Average Reading = Peak Reading (dBuV/m) + 20log (Duty Cycle), Where Duty Cycle is (# of long pulses * long pulse width) + (# of short pulses * short pulse width) / 100 or T

RESULTS

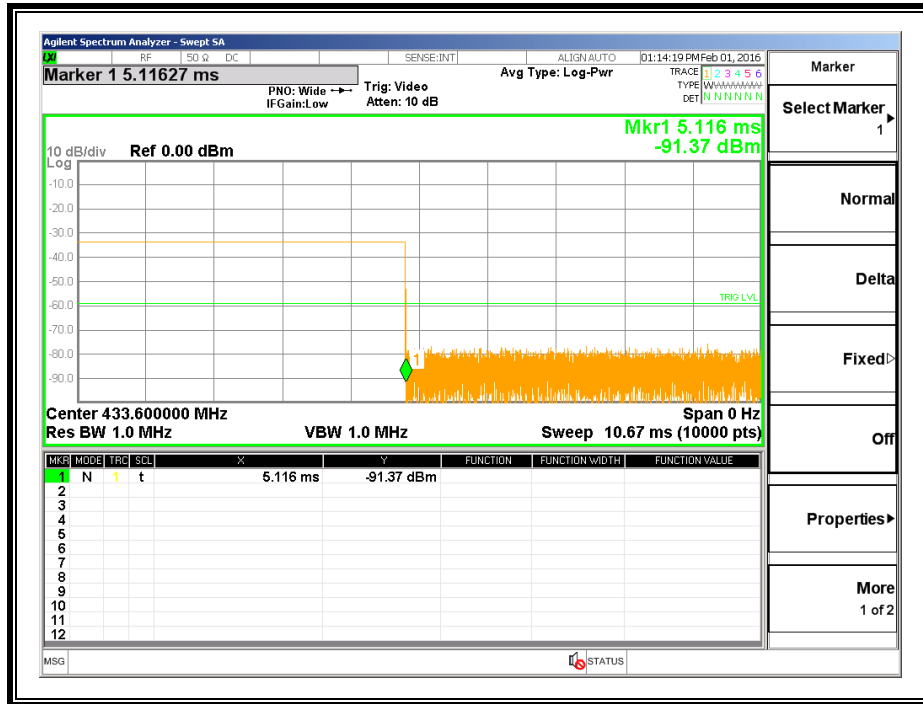
No non-compliance noted:

| One Period (ms) | Pulse Width (ms) | # of Pulses | Duty Cycle | 20*Log Duty Cycle (dB) |
|-----------------|------------------|-------------|------------|------------------------|
| 49.93 | 5.116 | 1 | 0.102 | -19.789 |

Period



PULSE WIDTH



7.3. TRANSMISSION TIME

LIMITS

FCC §15.231 (a) (2)

IC RSS-210 A1.1.1 (b)

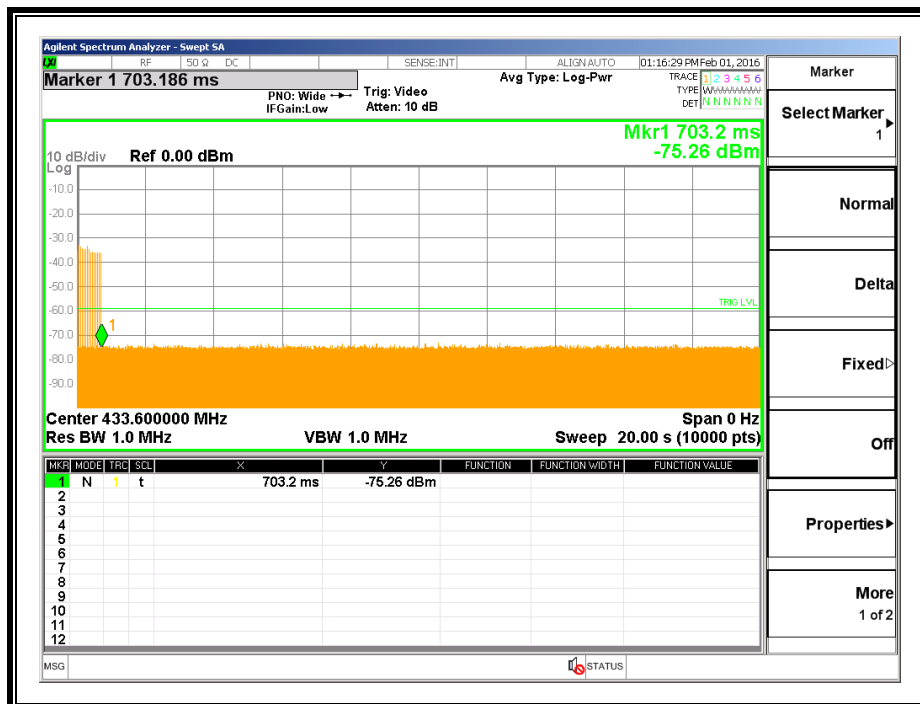
A transmitter activated automatically shall cease transmission within 5 seconds after activation.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer or radiated field strength. The RBW is set to 1MHz kHz and the VBW is set to equal or larger then RBW. The sweep time is set to necessary amount of time needed to show the maximum TX time after activation. Span is set to zero.

RESULTS

No non-compliance noted:
The device stops transmitting after 703.2ms.



8. RADIATED EMISSION TEST RESULTS

8.1. TX RADIATED SPURIOUS EMISSION

LIMITS

FCC §15.231 (b)

IC RSS-210 A1.1.2

In addition to the provisions of § 15.205, the field strength of emissions from Intentional radiators operated under this section shall not exceed the following:

| Fundamental Frequency (MHz) | Field Strength of Fundamental Frequency (microvolts/meter) | Field Strength of Spurious Emissions (microvolts/meter) |
|-----------------------------|--|---|
| 40.66 - 40.70 | 2,250 | 225 |
| 70 - 130 | 1,250 | 125 |
| 130 - 174 | 1,250 to 3,750 ¹ | 125 to 375 ¹ |
| 174 - 260 | 3,750 | 375 |
| 260 - 470 | 3,750 to 12,500 ¹ | 375 to 1,250 ¹ |
| Above 470 | 12,500 | 1,250 |

¹ Linear interpolation

§15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|----------------------------|---------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.52525 | 2655 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 156.7 - 156.9 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 162.0125 - 167.17 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 167.72 - 173.2 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 240 - 285 | 3600 - 4400 | (²) |
| 13.36 - 13.41 | 322 - 335.4 | | |

1 Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
2 Above 38.6

§15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

§15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100** | 3 |
| 88-216 | 150** | 3 |
| 216-960 | 200** | 3 |
| Above 960 | 500 | 3 |

**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

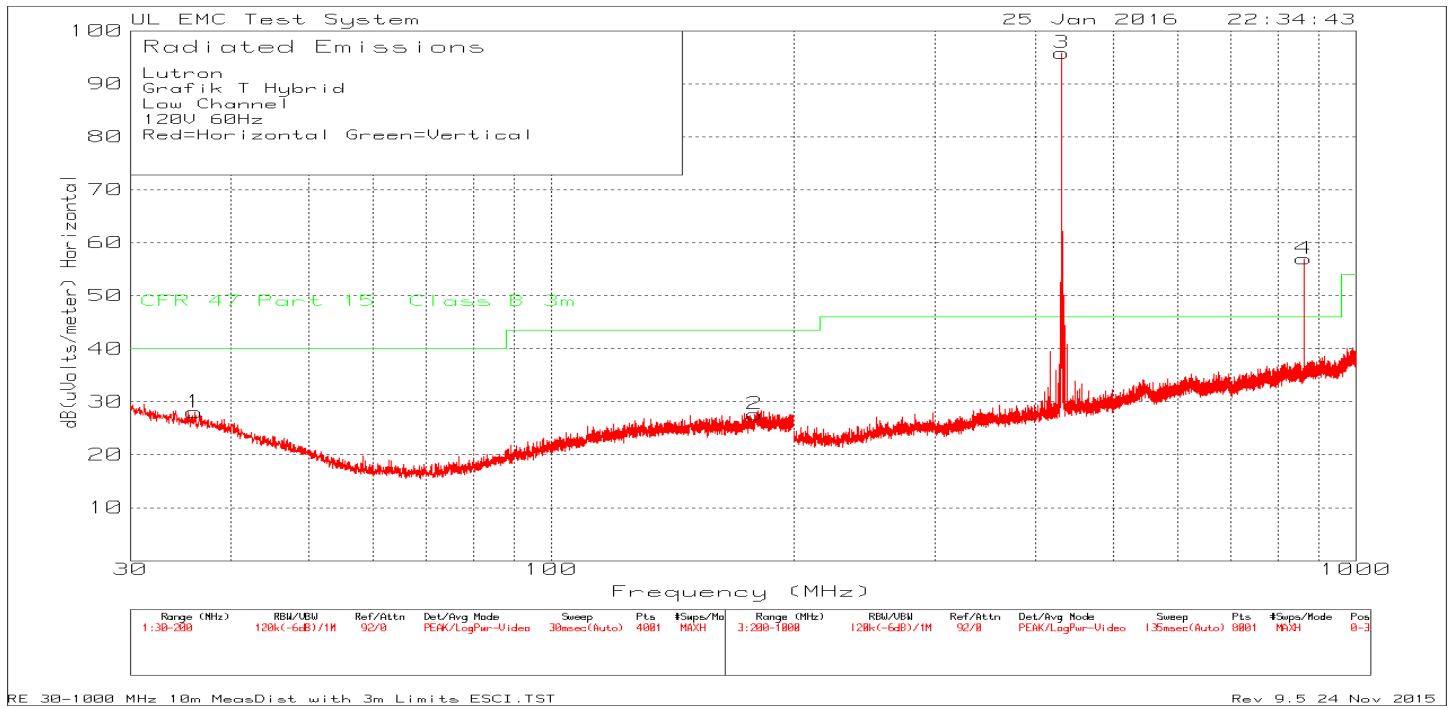
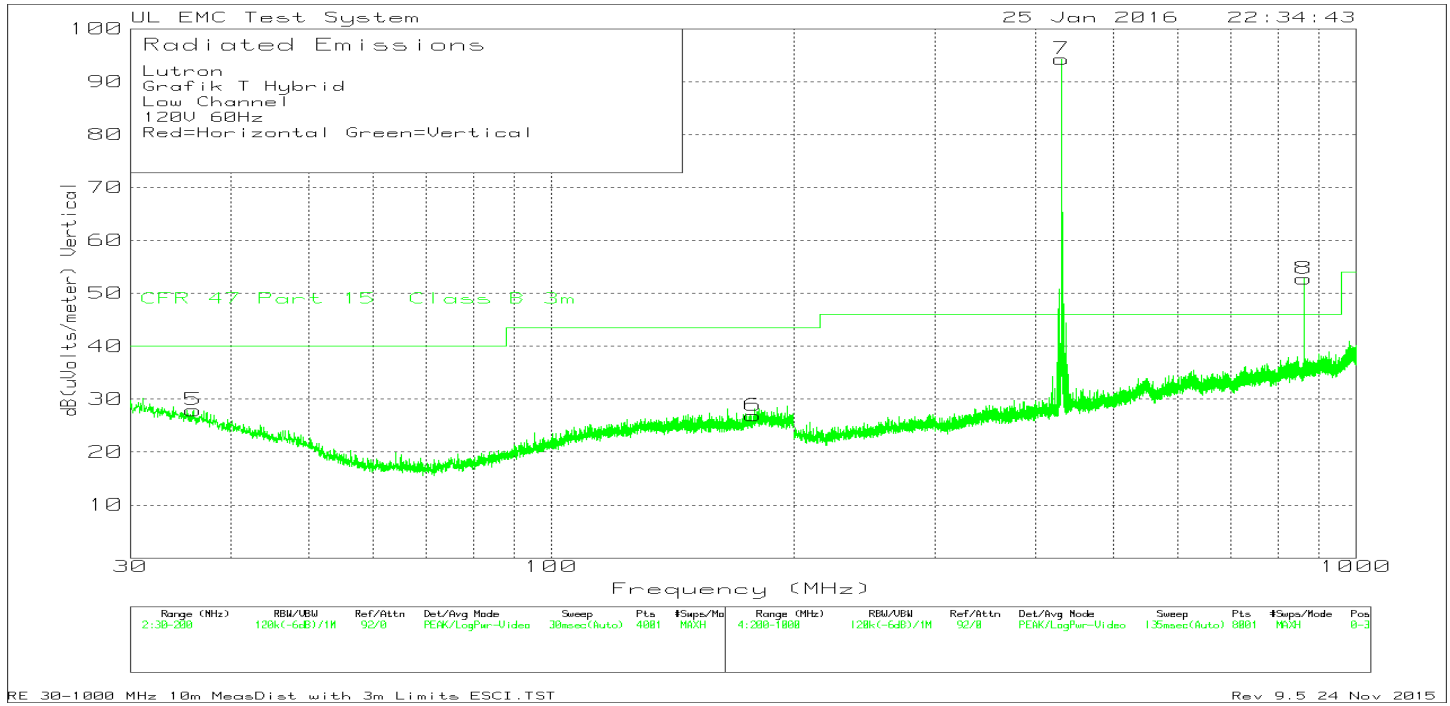
§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

RESULTS

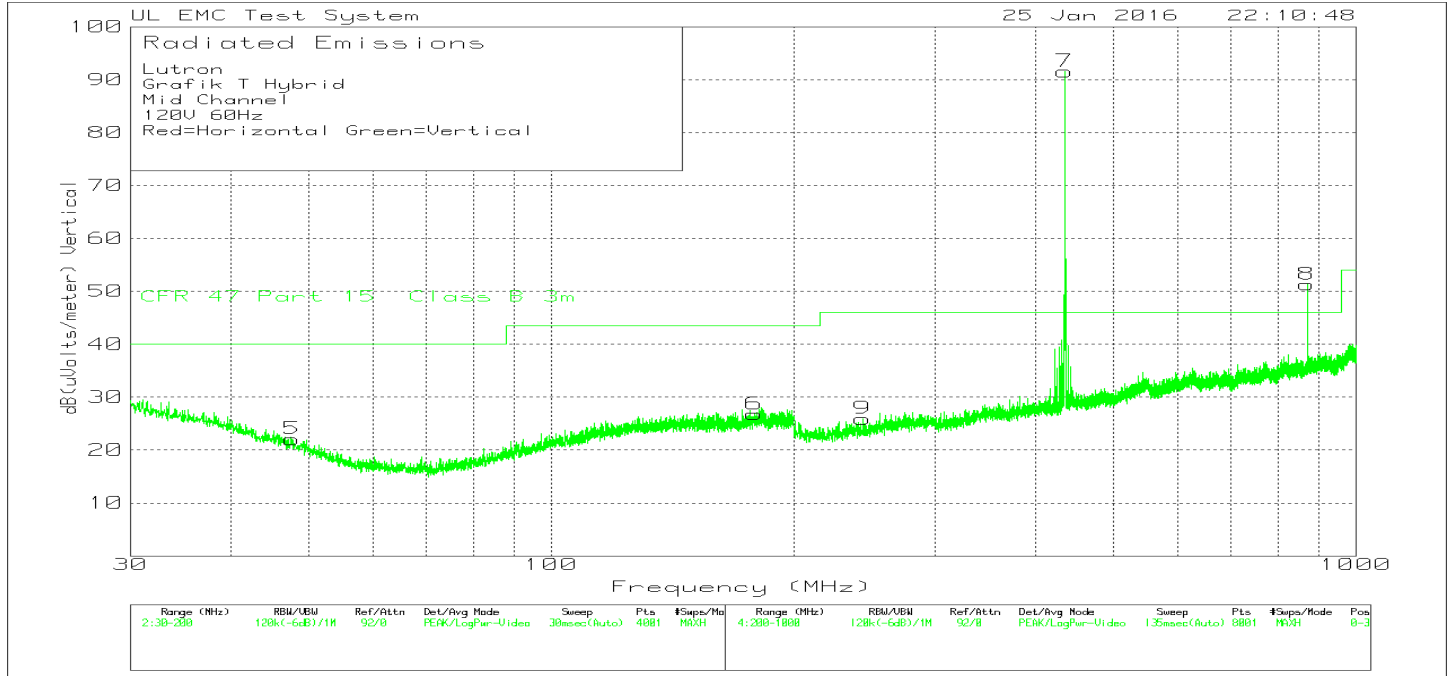
FUNDAMENTAL, HARMONICS AND TX SPURIOUS EMISSION (30 – 1000 MHz)

| Lutron | | | | | | | | | | | | | | |
|--------------------------------------|----------------------|----------|---------------------|----------------|-------------------|-------------------|-----------|----------------------|----------------------|----------------------|-------------|----------------|-------------|----------|
| Grafik T Hybrid | | | | | | | | | | | | | | |
| Pk measurements Low, mid & high chan | | | | | | | | | | | | | | |
| Fundamental and 2nd hamonic | | | | | | | | | | | | | | |
| Test Frequency (MHz) | Meter Reading (dBuV) | Detector | Antenna Factor dB/m | Path Factor dB | Peak Level dBuV/m | Peak Limit dBuV/m | Margin dB | Duty Cycle Factor dB | Average Level dBuV/m | Average Limit dBuV/m | Margin (dB) | Azimuth [Degs] | Height [cm] | Polarity |
| 430.9633 | 68.77 | Pk | 16.9 | 8.4 | 94.07 | 100.72 | -6.65 | -19.78 | 74.29 | 80.72 | -6.43 | 110 | 191 | H |
| 430.9571 | 70 | Pk | 16.9 | 8.4 | 95.3 | 100.72 | -5.42 | -19.78 | 75.52 | 80.72 | -5.2 | 17 | 129 | V |
| 434.664 | 67.29 | Pk | 17.1 | 8.5 | 92.89 | 100.85 | -7.96 | -19.78 | 73.11 | 80.85 | -7.74 | 108 | 170 | H |
| 434.7358 | 67.77 | Pk | 17.1 | 8.5 | 93.37 | 100.85 | -7.48 | -19.78 | 73.59 | 80.85 | -7.26 | 16 | 128 | V |
| 436.957 | 67.06 | Pk | 17.2 | 8.5 | 92.76 | 100.92 | -8.16 | -19.78 | 72.98 | 80.92 | -7.94 | 108 | 187 | H |
| 436.955 | 67.86 | Pk | 17.2 | 8.5 | 93.56 | 100.92 | -7.36 | -19.78 | 73.78 | 80.92 | -7.14 | 7 | 125 | V |
| 862.0781 | 10.2 | Pk | 23.4 | 9.7 | 43.3 | 66.02 | -22.72 | -19.78 | 23.52 | 46.02 | -22.5 | 141 | 103 | H |
| 862.0665 | 13.88 | Pk | 23.4 | 9.7 | 46.98 | 66.02 | -19.04 | -19.78 | 27.2 | 46.02 | -18.82 | 344 | 120 | V |
| 869.3098 | 12.97 | Pk | 23.2 | 9.7 | 45.87 | 66.02 | -20.15 | -19.78 | 26.09 | 46.02 | -19.93 | 7 | 102 | H |
| 869.323 | 18.64 | Pk | 23.2 | 9.7 | 51.54 | 66.02 | -14.48 | -19.78 | 31.76 | 46.02 | -14.26 | 206 | 126 | V |
| 873.9076 | 11.9 | Pk | 23.1 | 9.7 | 44.7 | 66.02 | -21.32 | -19.78 | 24.92 | 46.02 | -21.1 | 320 | 187 | H |
| 874.0638 | 19.23 | Pk | 23.1 | 9.7 | 52.03 | 66.02 | -13.99 | -19.78 | 32.25 | 46.02 | -13.77 | 209 | 125 | V |
| Pk - Peak detector | | | | | | | | | | | | | | |

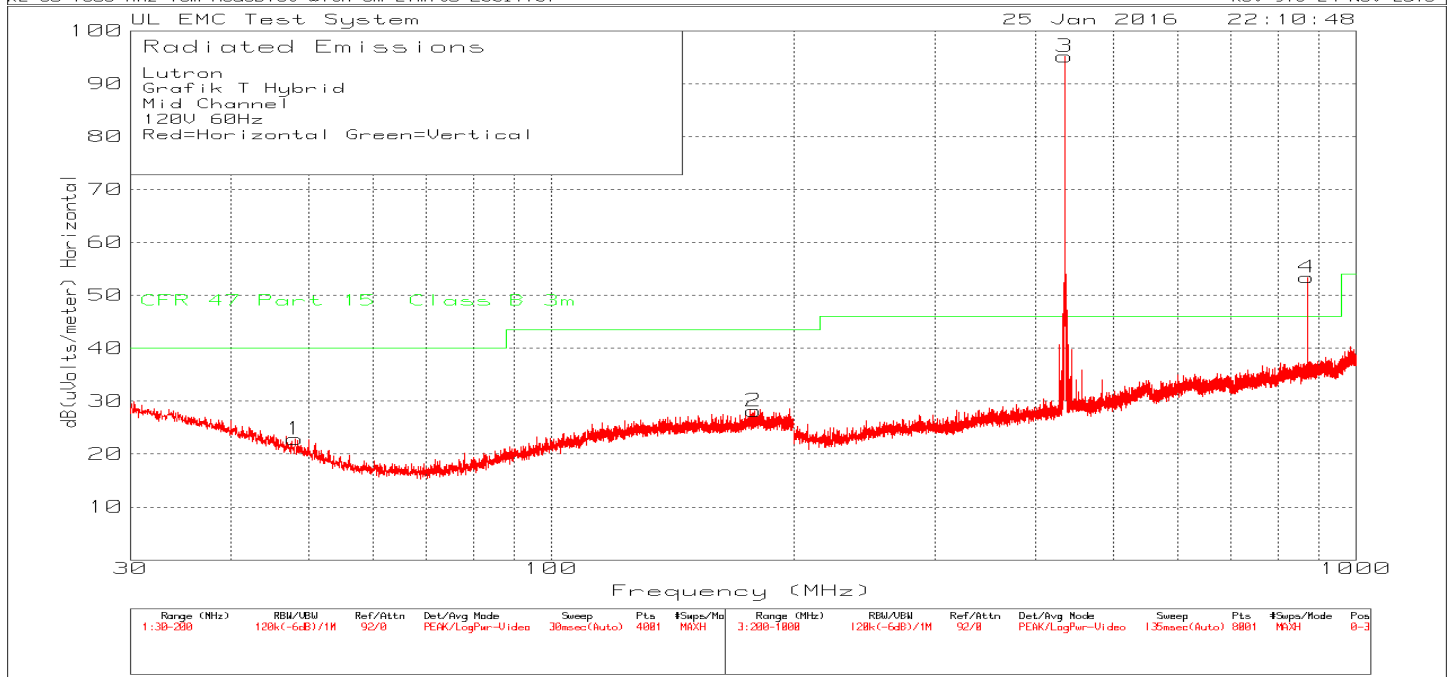
Low Channel Prescan



Middle Channel Prescan

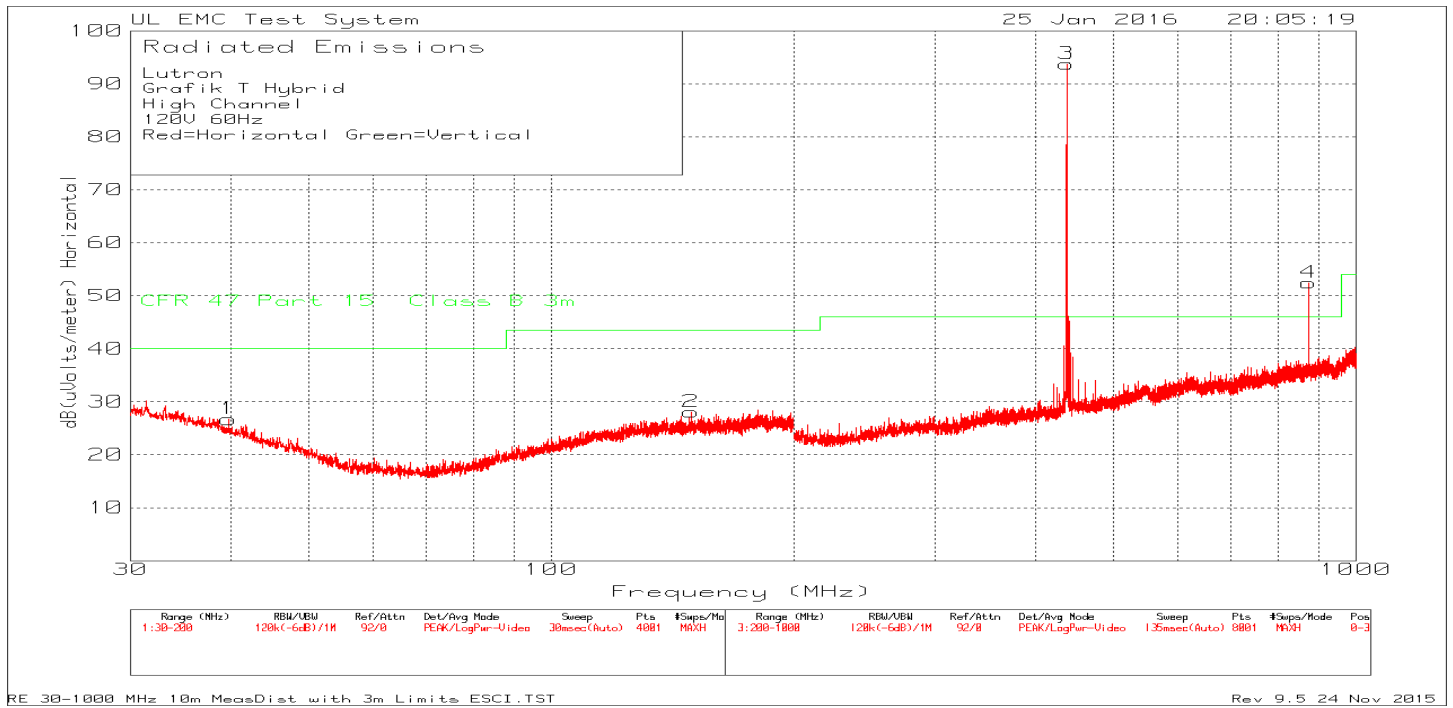
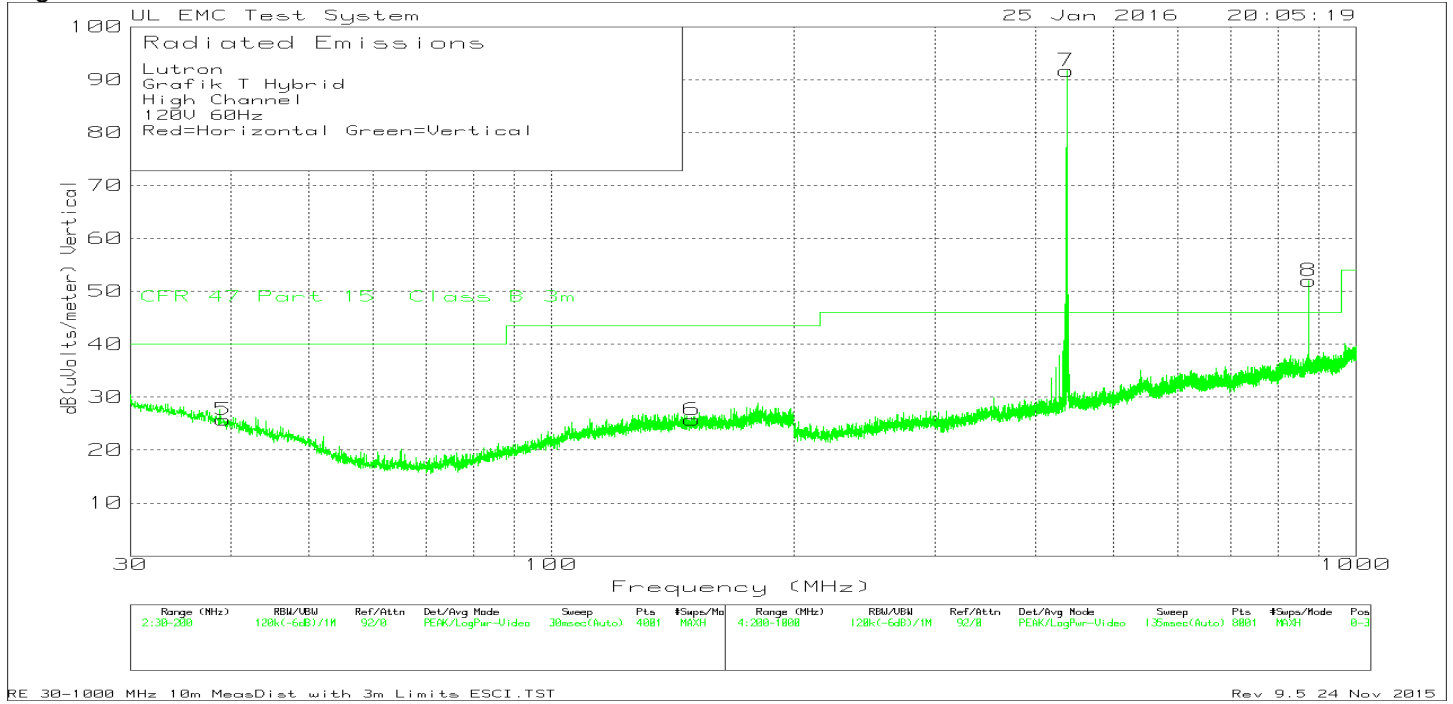


RE 30-1000 MHz 10m MeasDist with 3m Limits ESCI.TST Rev 9.5 24 Nov 2015



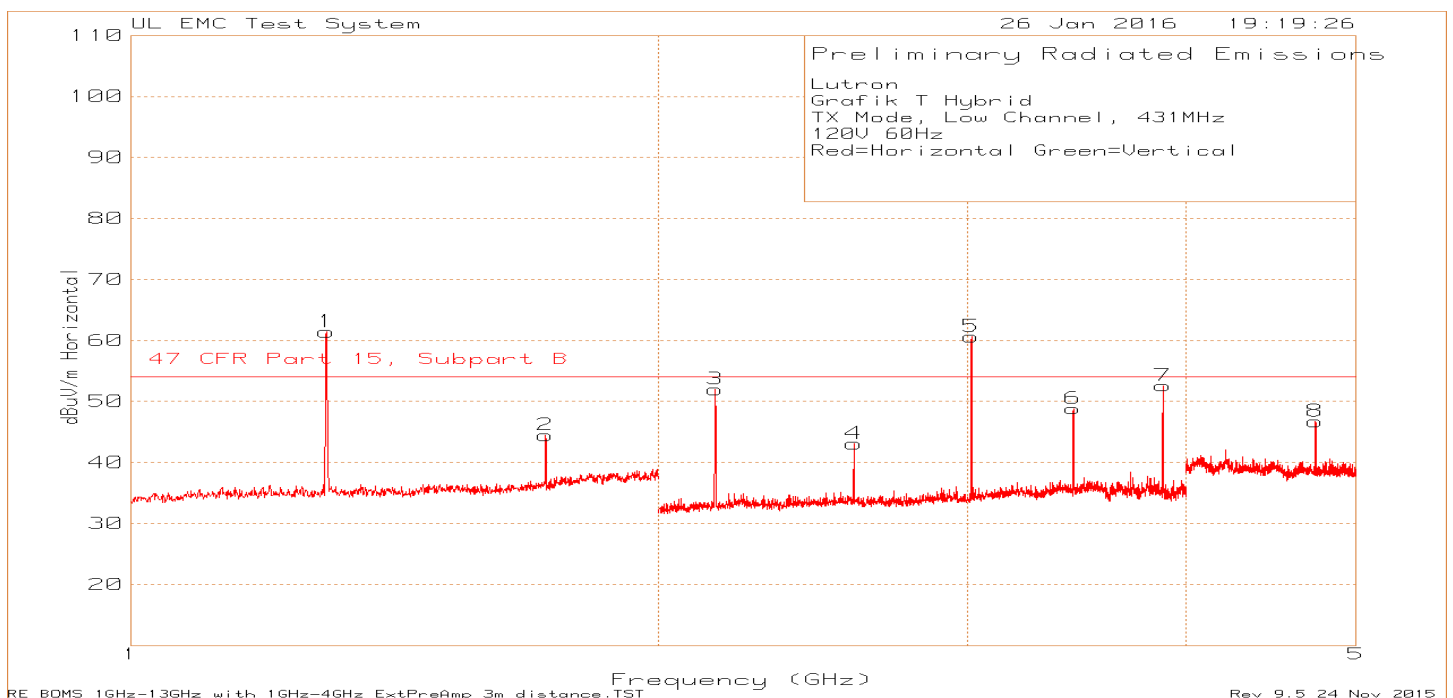
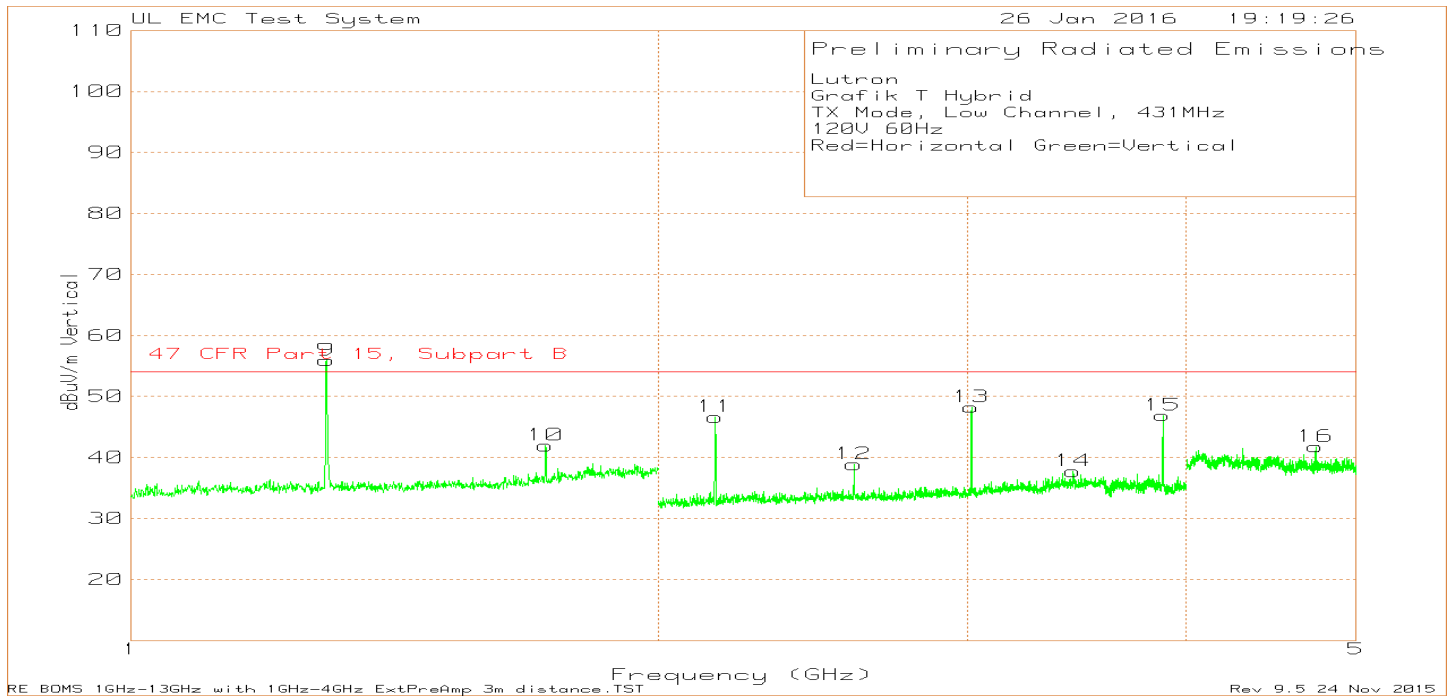
RE 30-1000 MHz 10m MeasDist with 3m Limits ESCI.TST Rev 9.5 24 Nov 2015

High Channel Prescan



HARMONICS AND TX SPURIOUS EMISSIONS ABOVE 1GHz

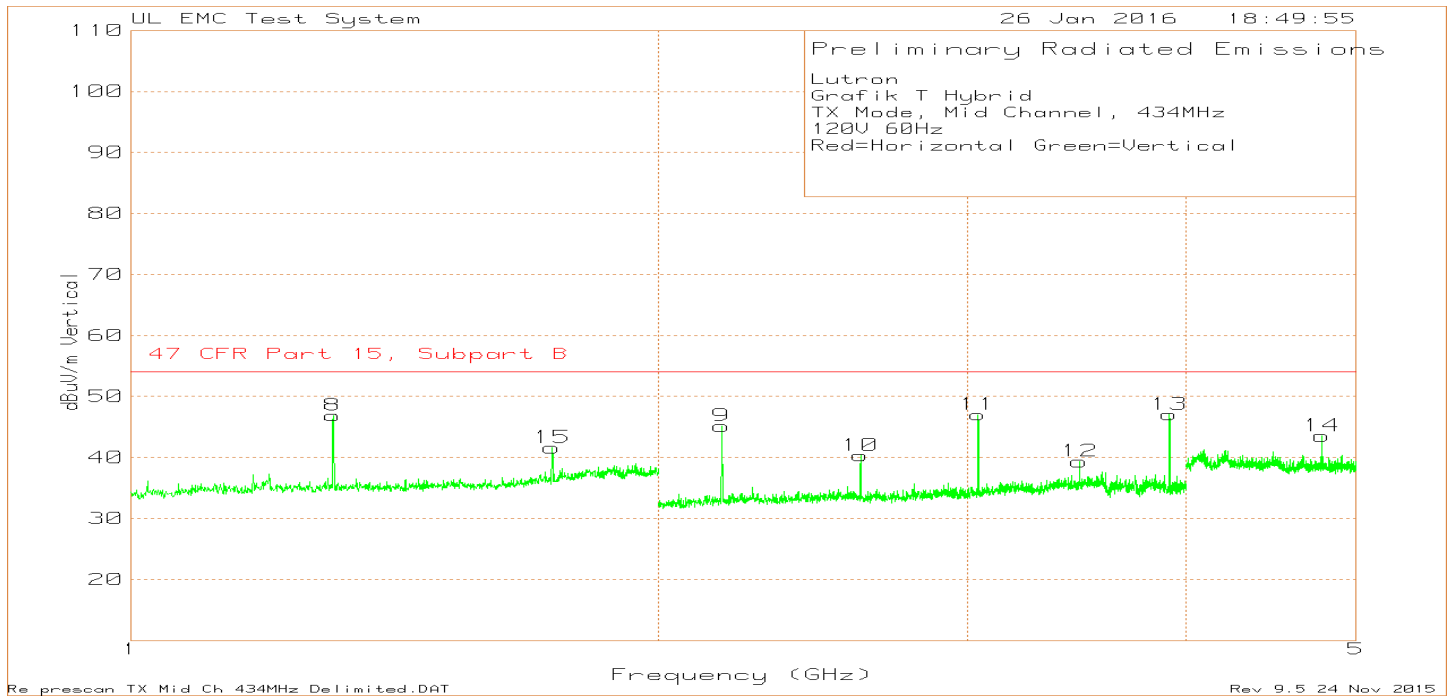
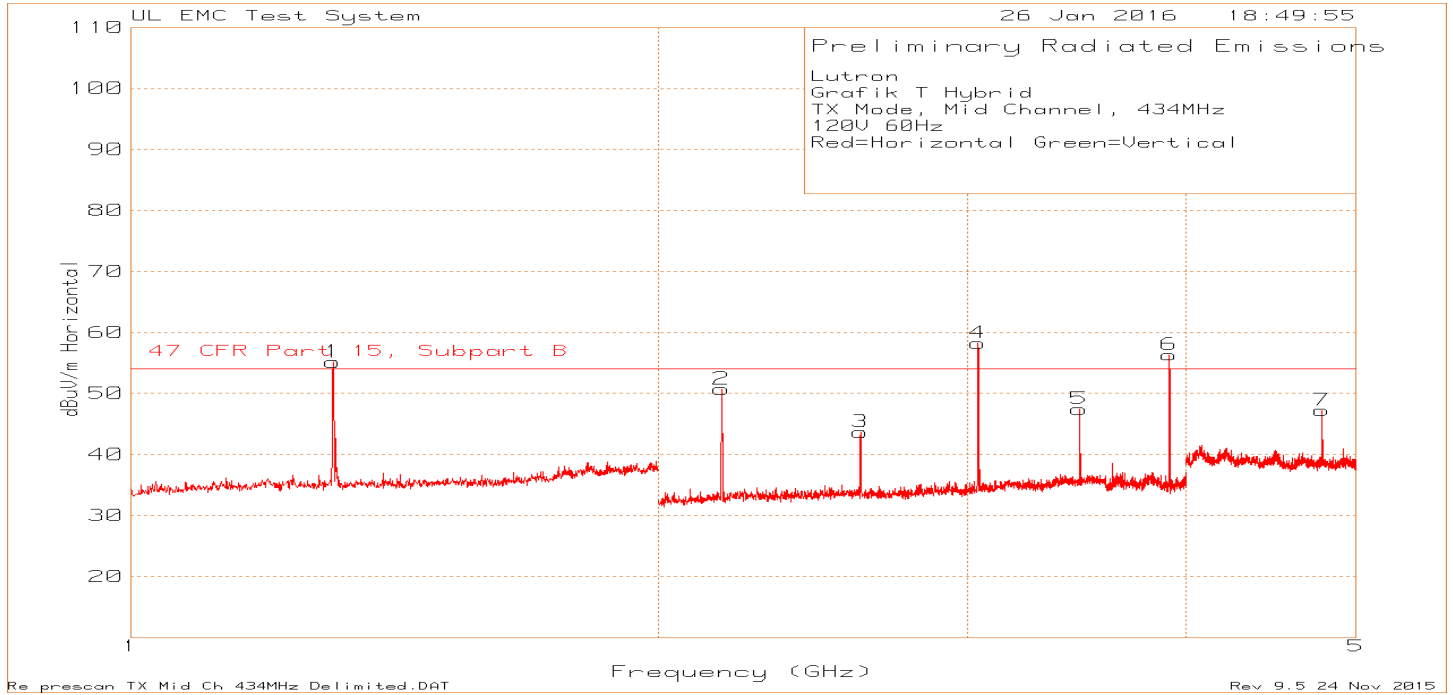
Low Channel Prescan



Low Channel Tabular Data

| Lutron | | | | | | | | | | | | | | | |
|-------------------------------|----------------------|----------------------|----------|---------------------|----------------|-------------------|-------------------|-----------|----------------------|----------------------|----------------------|-------------|----------------|-------------|----------|
| Grafik T Hybrid | | | | | | | | | | | | | | | |
| TX Mode, Low Channel, 431MHz | | | | | | | | | | | | | | | |
| 120V 60Hz | | | | | | | | | | | | | | | |
| Red=Horizontal Green=Vertical | | | | | | | | | | | | | | | |
| Trace Markers | | | | | | | | | | | | | | | |
| Marker No. | Test Frequency (GHz) | Meter Reading (dBuV) | Detector | Antenna Factor dB/m | Path Factor dB | Peak Level dBuV/m | Peak Limit dBuV/m | Margin dB | Duty Cycle Factor dB | Average Level dBuV/m | Average Limit dBuV/m | Margin (dB) | Azimuth [Degs] | Height [cm] | Polarity |
| 1 | 1.2929 | 95.09 | Pk | 25.2 | -57.09 | 63.2 | 74 | -10.8 | -19.78 | 43.42 | 54 | -10.58 | 134 | 156 | H |
| 2 | 1.724 | 73.6 | Pk | 26.3 | -55.43 | 44.47 | 74 | -29.53 | -19.78 | 24.69 | 54 | -29.31 | 0-360 | 150 | H |
| 3 | 2.155 | 82.59 | Pk | 21.6 | -52.21 | 51.98 | 74 | -22.02 | -19.78 | 32.2 | 54 | -21.8 | 0-360 | 100 | H |
| 4 | 2.585 | 71.86 | Pk | 22.3 | -51.1 | 43.06 | 74 | -30.94 | -19.78 | 23.28 | 54 | -30.72 | 0-360 | 150 | H |
| 5 | 3.0167 | 88.8 | Pk | 22.5 | -50.4 | 60.9 | 74 | -13.1 | -19.78 | 41.12 | 54 | -12.88 | 238 | 133 | H |
| 6 | 3.449 | 75.99 | Pk | 23.5 | -50.65 | 48.84 | 74 | -25.16 | -19.78 | 29.06 | 54 | -24.94 | 0-360 | 100 | H |
| 7 | 3.88 | 78.99 | Pk | 23.9 | -50.29 | 52.6 | 74 | -21.4 | -19.78 | 32.82 | 54 | -21.18 | 0-360 | 150 | H |
| 8 | 4.741 | 70.71 | Pk | 27.7 | -51.7 | 46.71 | 74 | -27.29 | -19.78 | 26.93 | 54 | -27.07 | 0-360 | 101 | H |
| 9 | 1.2929 | 89.11 | Pk | 25.2 | -57.09 | 57.22 | 74 | -16.78 | -19.78 | 37.44 | 54 | -16.56 | 201 | 162 | V |
| 10 | 1.724 | 71.08 | Pk | 26.3 | -55.43 | 41.95 | 74 | -32.05 | -19.78 | 22.17 | 54 | -31.83 | 0-360 | 99 | V |
| 11 | 2.155 | 77.23 | Pk | 21.6 | -52.21 | 46.62 | 74 | -27.38 | -19.78 | 26.84 | 54 | -27.16 | 0-360 | 100 | V |
| 12 | 2.586 | 67.71 | Pk | 22.3 | -51.11 | 38.9 | 74 | -35.1 | -19.78 | 19.12 | 54 | -34.88 | 0-360 | 100 | V |
| 13 | 3.017 | 76.15 | Pk | 22.5 | -50.39 | 48.26 | 74 | -25.74 | -19.78 | 28.48 | 54 | -25.52 | 0-360 | 150 | V |
| 14 | 3.448 | 64.91 | Pk | 23.5 | -50.65 | 37.76 | 74 | -36.24 | -19.78 | 17.98 | 54 | -36.02 | 0-360 | 100 | V |
| 15 | 3.879 | 73.27 | Pk | 23.9 | -50.27 | 46.9 | 74 | -27.1 | -19.78 | 27.12 | 54 | -26.88 | 0-360 | 100 | V |
| 16 | 4.742 | 65.78 | Pk | 27.7 | -51.69 | 41.79 | 74 | -32.21 | -19.78 | 22.01 | 54 | -31.99 | 0-360 | 150 | V |
| Pk - Peak detector | | | | | | | | | | | | | | | |

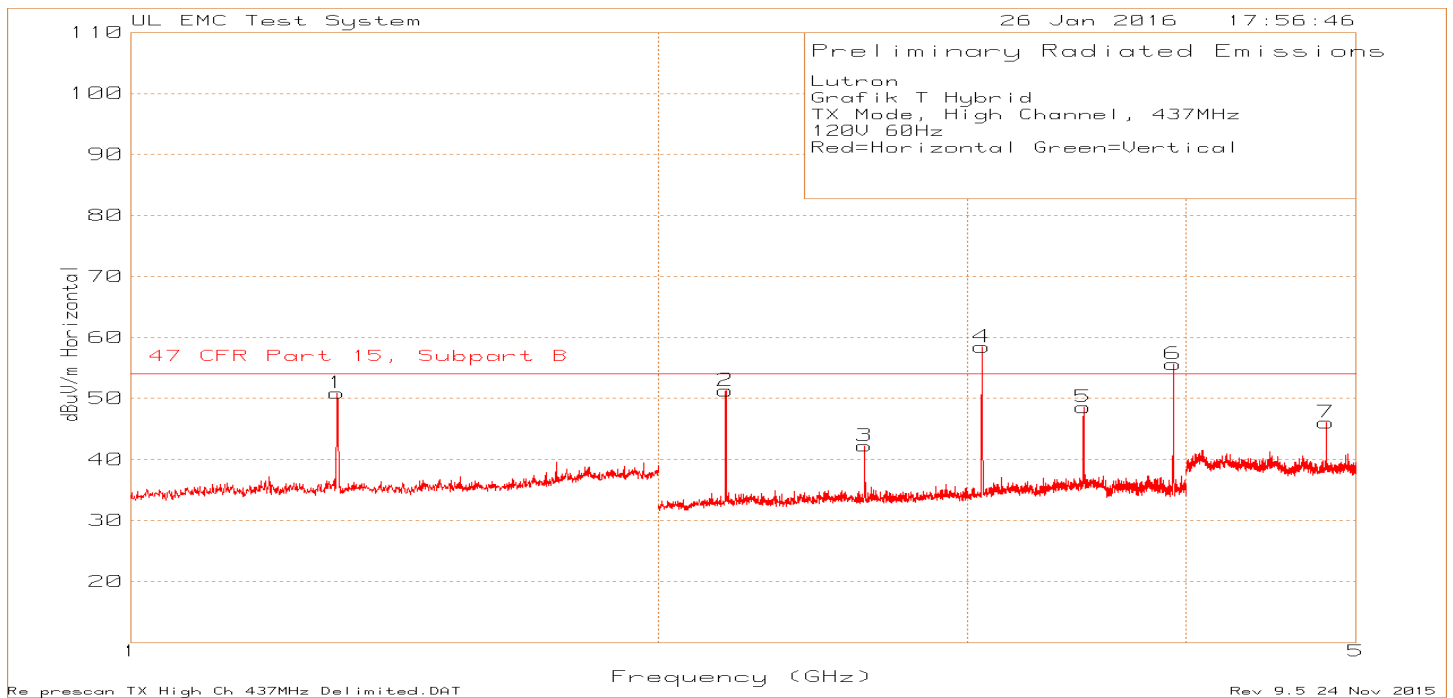
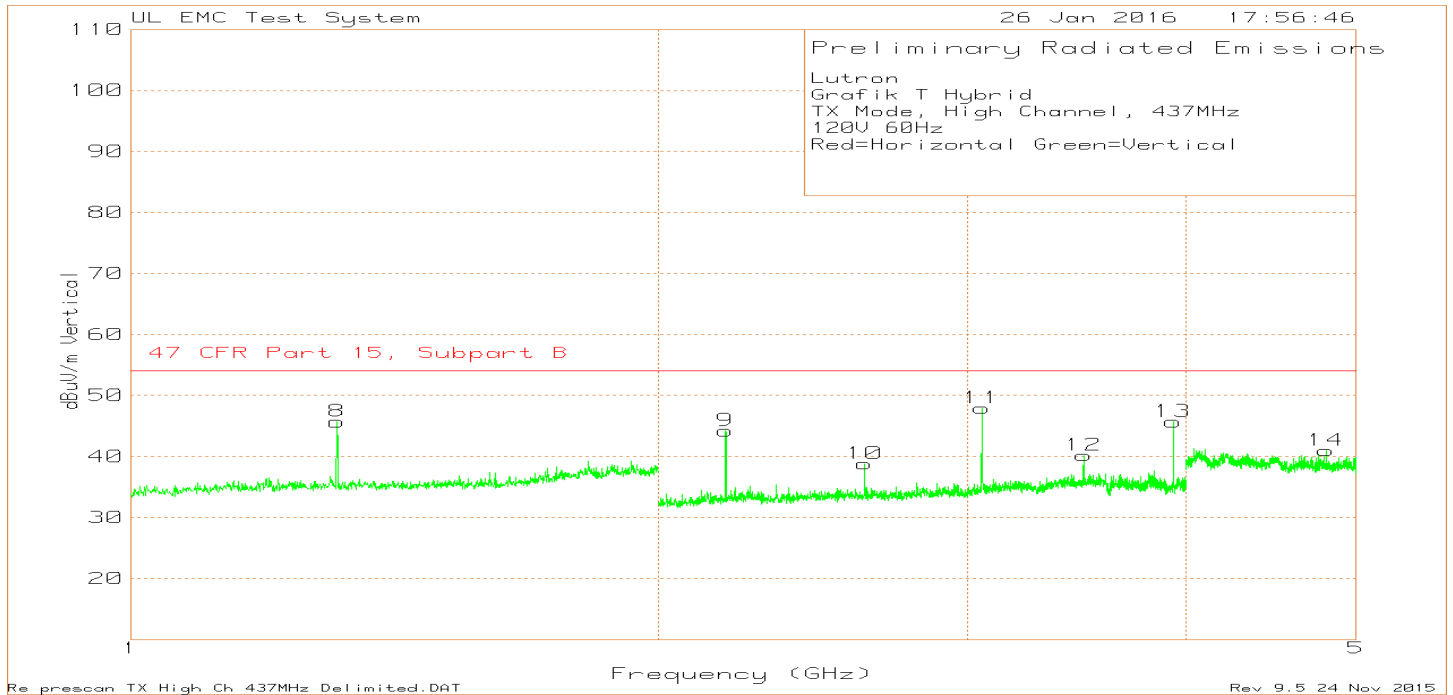
Middle Channel Prescan



Middle Channel Tabular Data

| Lutron | | | | | | | | | | | | | | | |
|-------------------------------|----------------------|----------------------|----------|---------------------|----------------|-------------------|-------------------|-----------|----------------------|----------------------|----------------------|-------------|----------------|-------------|----------|
| Grafik T Hybrid | | | | | | | | | | | | | | | |
| TX Mode, Mid Channel, 434MHz | | | | | | | | | | | | | | | |
| 120V 60Hz | | | | | | | | | | | | | | | |
| Red=Horizontal Green=Vertical | | | | | | | | | | | | | | | |
| Trace Markers | | | | | | | | | | | | | | | |
| Marker No. | Test Frequency (GHz) | Meter Reading (dBuV) | Detector | Antenna Factor dB/m | Path Factor dB | Peak Level dBuV/m | Peak Limit dBuV/m | Margin dB | Duty Cycle Factor dB | Average Level dBuV/m | Average Limit dBuV/m | Margin (dB) | Azimuth [Degs] | Height [cm] | Polarity |
| 1 | 1.3039 | 87.18 | Pk | 25.3 | -57.01 | 55.47 | 74 | -18.53 | -19.78 | 35.69 | 54 | -18.31 | 134 | 123 | H |
| 2 | 2.173 | 81.2 | Pk | 21.7 | -52.2 | 50.7 | 74 | -23.3 | -19.78 | 30.92 | 54 | -23.08 | 0-360 | 150 | H |
| 3 | 2.608 | 72.55 | Pk | 22.3 | -51.18 | 43.67 | 74 | -30.33 | -19.78 | 23.89 | 54 | -30.11 | 0-360 | 150 | H |
| 4 | 3.0431 | 86.25 | Pk | 22.5 | -50.17 | 58.58 | 74 | -15.42 | -19.78 | 38.8 | 54 | -15.2 | 233 | 100 | H |
| 5 | 3.478 | 74.48 | Pk | 23.5 | -50.53 | 47.45 | 74 | -26.55 | -19.78 | 27.67 | 54 | -26.33 | 0-360 | 150 | H |
| 6 | 3.9126 | 84.38 | Pk | 23.9 | -51.1 | 57.18 | 74 | -16.82 | -19.78 | 37.4 | 54 | -16.6 | 250 | 179 | H |
| 7 | 4.782 | 71.19 | Pk | 27.7 | -51.64 | 47.25 | 74 | -26.75 | -19.78 | 27.47 | 54 | -26.53 | 0-360 | 101 | H |
| 8 | 1.304 | 78.59 | Pk | 25.3 | -57 | 46.89 | 74 | -27.11 | -19.78 | 27.11 | 54 | -26.89 | 0-360 | 100 | V |
| 15 | 1.739 | 70.57 | Pk | 26.4 | -55.39 | 41.58 | 74 | -32.42 | -19.78 | 21.8 | 54 | -32.2 | 0-360 | 100 | V |
| 9 | 2.173 | 75.64 | Pk | 21.7 | -52.2 | 45.14 | 74 | -28.86 | -19.78 | 25.36 | 54 | -28.64 | 0-360 | 99 | V |
| 10 | 2.608 | 69.2 | Pk | 22.3 | -51.18 | 40.32 | 74 | -33.68 | -19.78 | 20.54 | 54 | -33.46 | 0-360 | 99 | V |
| 11 | 3.043 | 74.7 | Pk | 22.5 | -50.17 | 47.03 | 74 | -26.97 | -19.78 | 27.25 | 54 | -26.75 | 0-360 | 150 | V |
| 12 | 3.478 | 66.36 | Pk | 23.5 | -50.53 | 39.33 | 74 | -34.67 | -19.78 | 19.55 | 54 | -34.45 | 0-360 | 99 | V |
| 13 | 3.913 | 74.25 | Pk | 23.9 | -51.11 | 47.04 | 74 | -26.96 | -19.78 | 27.26 | 54 | -26.74 | 0-360 | 99 | V |
| 14 | 4.782 | 67.46 | Pk | 27.7 | -51.64 | 43.52 | 74 | -30.48 | -19.78 | 23.74 | 54 | -30.26 | 0-360 | 100 | V |
| Pk - Peak detector | | | | | | | | | | | | | | | |

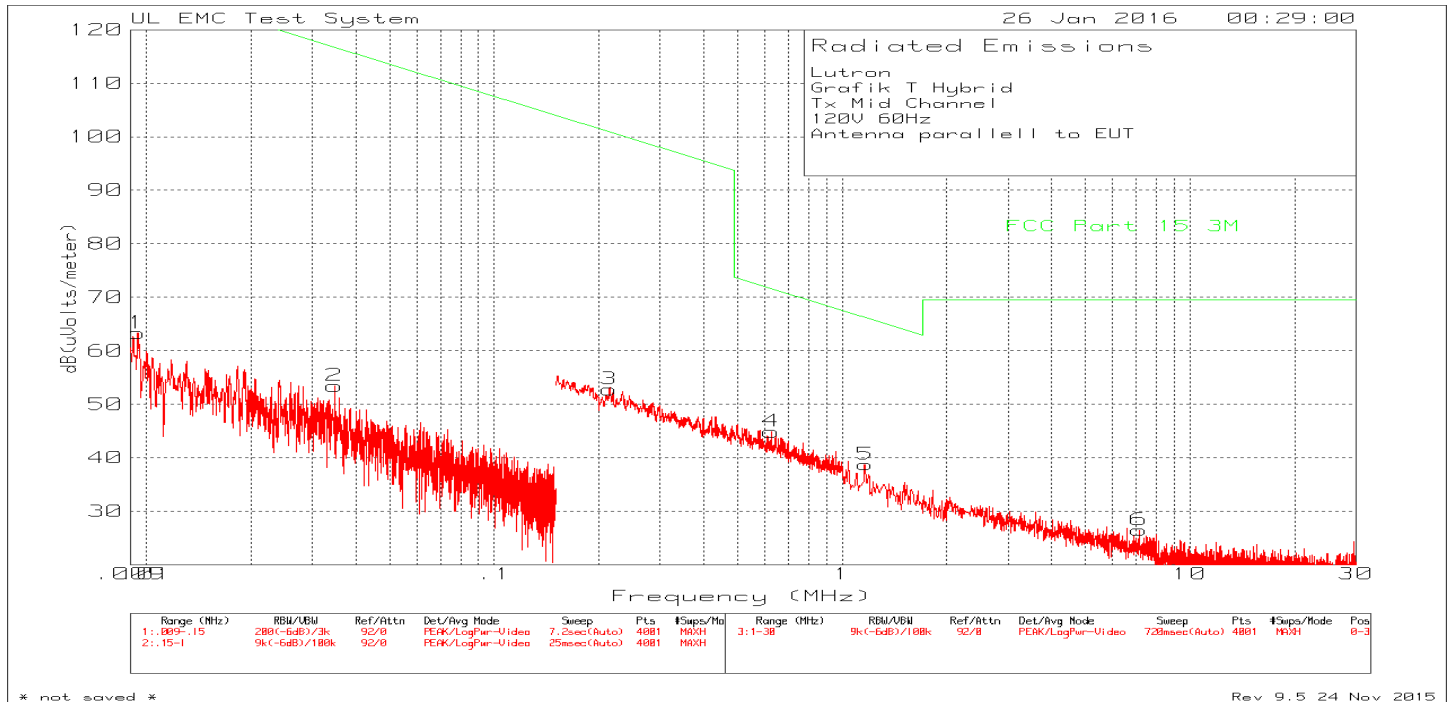
High Channel Prescan



High Channel Tabular Data

| Lutron | | | | | | | | | | | | | | | |
|-------------------------------|----------------------|----------------------|----------|---------------------|----------------|-------------------|-------------------|-----------|----------------------|----------------------|----------------------|-------------|----------------|-------------|----------|
| Grafik T Hybrid | | | | | | | | | | | | | | | |
| TX Mode, High Channel, 437MHz | | | | | | | | | | | | | | | |
| 120V 60Hz | | | | | | | | | | | | | | | |
| Red=Horizontal Green=Vertical | | | | | | | | | | | | | | | |
| Trace Markers | | | | | | | | | | | | | | | |
| Marker No. | Test Frequency (GHz) | Meter Reading (dBuV) | Detector | Antenna Factor dB/m | Path Factor dB | Peak Level dBuV/m | Peak Limit dBuV/m | Margin dB | Duty Cycle Factor dB | Average Level dBuV/m | Average Limit dBuV/m | Margin (dB) | Azimuth [Degs] | Height [cm] | Polarity |
| 1 | 1.3039 | 87.18 | Pk | 25.3 | -57.01 | 55.47 | 74 | -18.53 | -19.78 | 35.69 | 54 | -18.31 | 134 | 123 | H |
| 2 | 2.185 | 81.71 | Pk | 21.7 | -52.13 | 51.28 | 74 | -22.72 | -19.78 | 31.5 | 54 | -22.5 | 0-360 | 150 | H |
| 3 | 2.622 | 71.05 | Pk | 22.3 | -51.1 | 42.25 | 74 | -31.75 | -19.78 | 22.47 | 54 | -31.53 | 0-360 | 100 | H |
| 4 | 3.0593 | 86.23 | Pk | 22.6 | -50.04 | 58.79 | 74 | -15.21 | -19.78 | 39.01 | 54 | -14.99 | 231 | 138 | H |
| 5 | 3.496 | 75.35 | Pk | 23.5 | -50.26 | 48.59 | 74 | -25.41 | -19.78 | 28.81 | 54 | -25.19 | 0-360 | 150 | H |
| 6 | 3.9332 | 84.81 | Pk | 24 | -51.16 | 57.65 | 74 | -16.35 | -19.78 | 37.87 | 54 | -16.13 | 249 | 193 | H |
| 7 | 4.808 | 69.83 | Pk | 27.7 | -51.47 | 46.06 | 74 | -27.94 | -19.78 | 26.28 | 54 | -27.72 | 0-360 | 100 | H |
| 8 | 1.311 | 77.47 | Pk | 25.2 | -56.95 | 45.72 | 74 | -28.28 | -19.78 | 25.94 | 54 | -28.06 | 0-360 | 150 | V |
| 9 | 2.184 | 74.65 | Pk | 21.7 | -52.15 | 44.2 | 74 | -29.8 | -19.78 | 24.42 | 54 | -29.58 | 0-360 | 100 | V |
| 10 | 2.622 | 67.63 | Pk | 22.3 | -51.1 | 38.83 | 74 | -35.17 | -19.78 | 19.05 | 54 | -34.95 | 0-360 | 100 | V |
| 11 | 3.059 | 75.38 | Pk | 22.6 | -50.05 | 47.93 | 74 | -26.07 | -19.78 | 28.15 | 54 | -25.85 | 0-360 | 100 | V |
| 12 | 3.497 | 66.94 | Pk | 23.5 | -50.24 | 40.2 | 74 | -33.8 | -19.78 | 20.42 | 54 | -33.58 | 0-360 | 100 | V |
| 13 | 3.933 | 72.85 | Pk | 24 | -51.16 | 45.69 | 74 | -28.31 | -19.78 | 25.91 | 54 | -28.09 | 0-360 | 150 | V |
| 14 | 4.807 | 64.75 | Pk | 27.7 | -51.47 | 40.98 | 74 | -33.02 | -19.78 | 21.2 | 54 | -32.8 | 0-360 | 150 | V |
| Pk - Peak detector | | | | | | | | | | | | | | | |

SPURIOUS EMISSIONS Below 30MHz



Lutron
 Grafik T Hybrid
 Tx Mid Channel
 120V 60Hz
 Antenna parallel to EUT

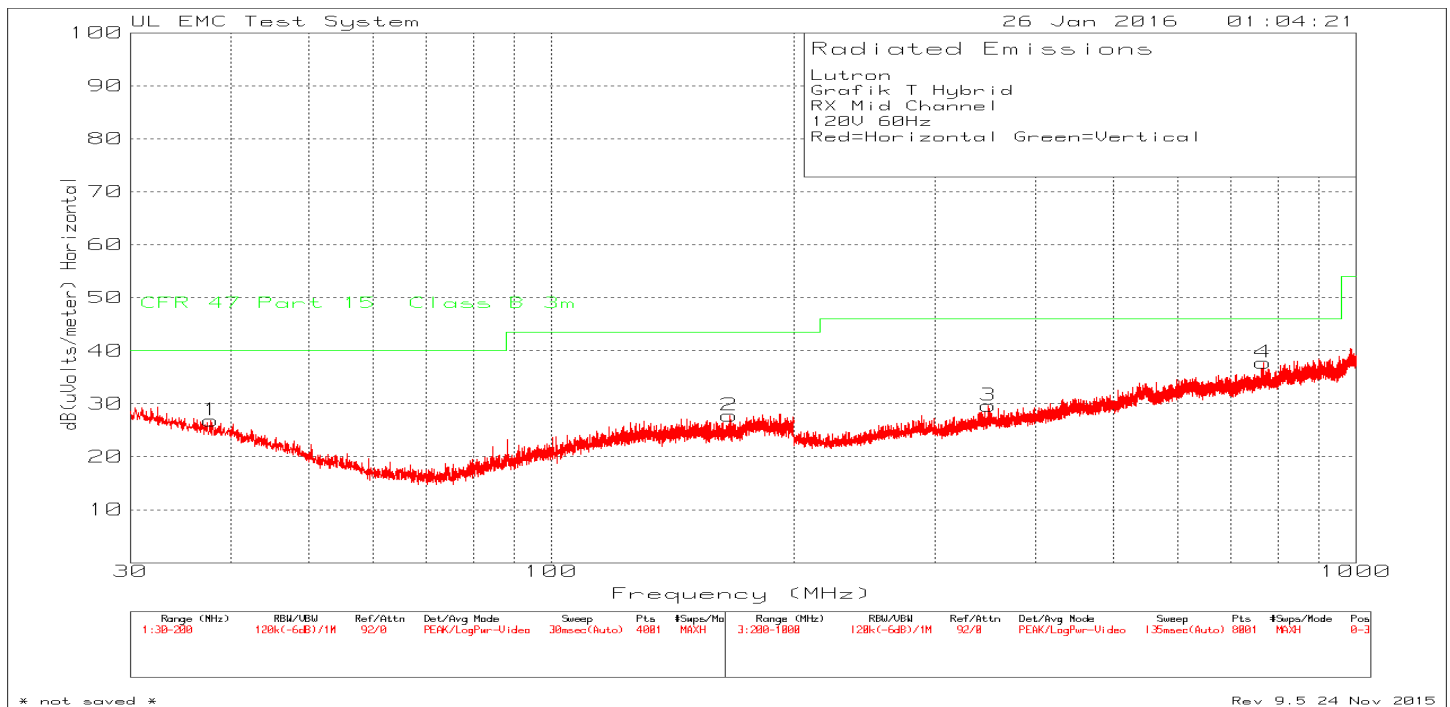
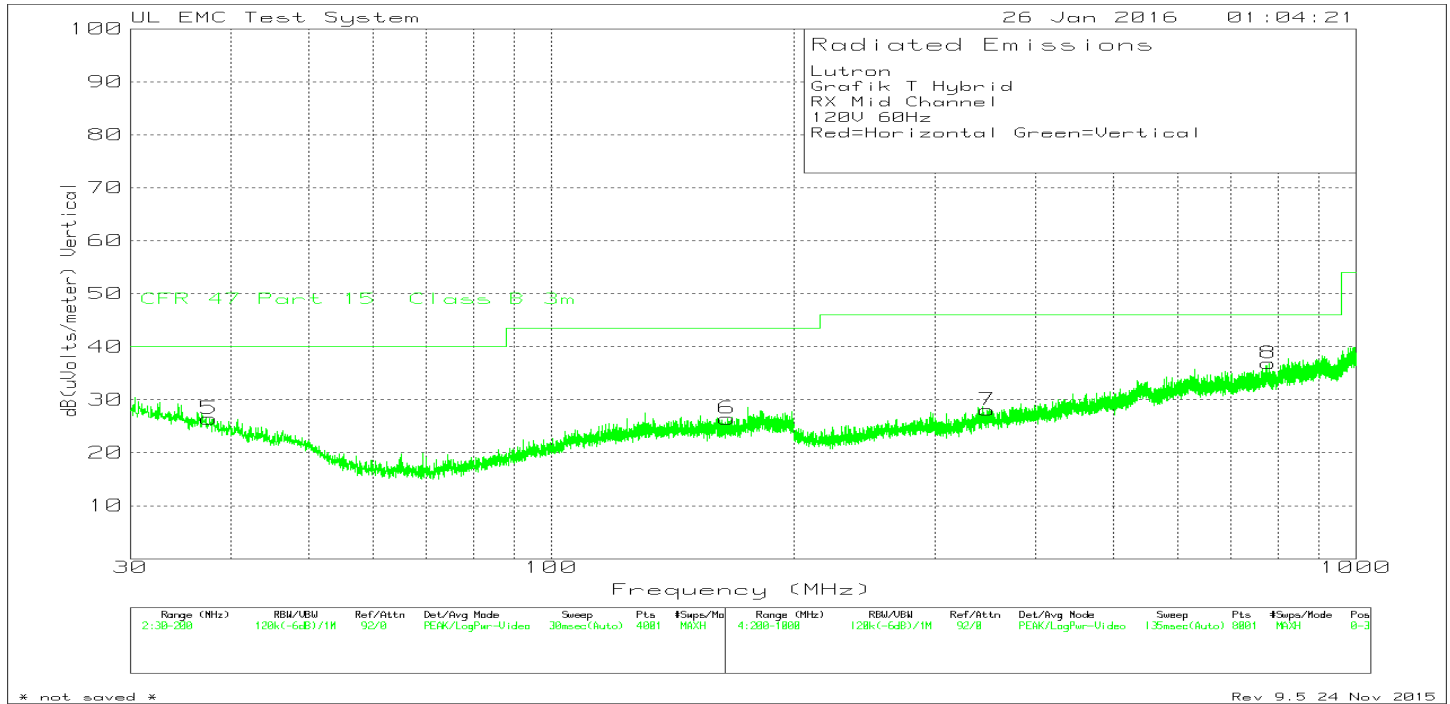
Trace Markers

| Test No. | Frequency (MHz) | Meter Reading | Transducer Factor (dB) | Gain/Loss Factor (dB) | Corrected Reading (dB) | Limit:1 (dB) | 2 | 3 | 4 | 5 | 6 |
|----------|-----------------|-------------------------------|------------------------|-----------------------|------------------------|--------------|---|---|---|---|---|
| 1 | .00942 | 41.4dBuV Pk Azimuth:0-360 | 21.9 | 0 | 63.3 | 128.1 | - | - | - | - | - |
| | | | | | Margin (dB) | -64.8 | - | - | - | - | - |
| 2 | .03476 | 38.16dBuV Pk Azimuth:0-360 | 15.3 | 0 | 53.46 | 116.77 | - | - | - | - | - |
| | | | | | Margin (dB) | -63.31 | - | - | - | - | - |
| 3 | .21411 | 40.82dBuV Pk Azimuth:0-360 | 12 | 0 | 52.82 | 100.99 | - | - | - | - | - |
| | | | | | Margin (dB) | -48.17 | - | - | - | - | - |
| 4 | .62659 | 32.91dBuV Pk Azimuth:0-360 | 12 | 0 | 44.91 | 71.66 | - | - | - | - | - |
| | | | | | Margin (dB) | -26.75 | - | - | - | - | - |
| 5 | 1.16675 | 26.15dBuV Pk Azimuth:0-360 | 12.5 | .1 | 38.75 | 66.26 | - | - | - | - | - |
| | | | | | Margin (dB) | -27.51 | - | - | - | - | - |
| 6 | 7.15525 | 14.7dBuV Pk Azimuth:0-360 | 11.7 | .1 | 26.5 | 69.54 | - | - | - | - | - |
| | | | | | Margin (dB) | -43.04 | - | - | - | - | - |

LIMIT 1: FCC Part 15.3M
 Pk - Peak detector

8.2. DIGITAL RADIATED EMISSION

Receive Mode 30MHz – 1GHz Prescan



Receive Mode 30MHz – 1GHz Tabular Data

Lutron
 Grafik T Hybrid
 RX Mid Channel
 120V 60Hz
 Red=Horizontal Green=Vertical

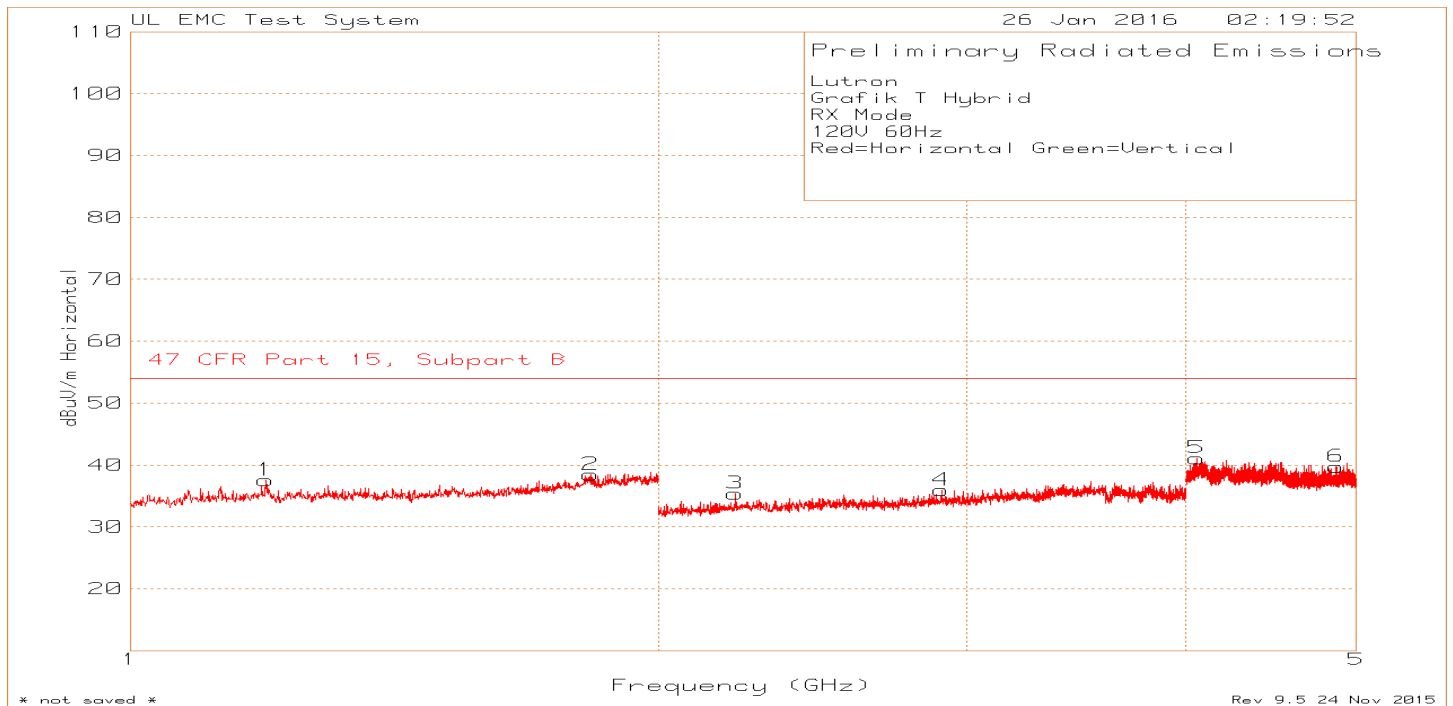
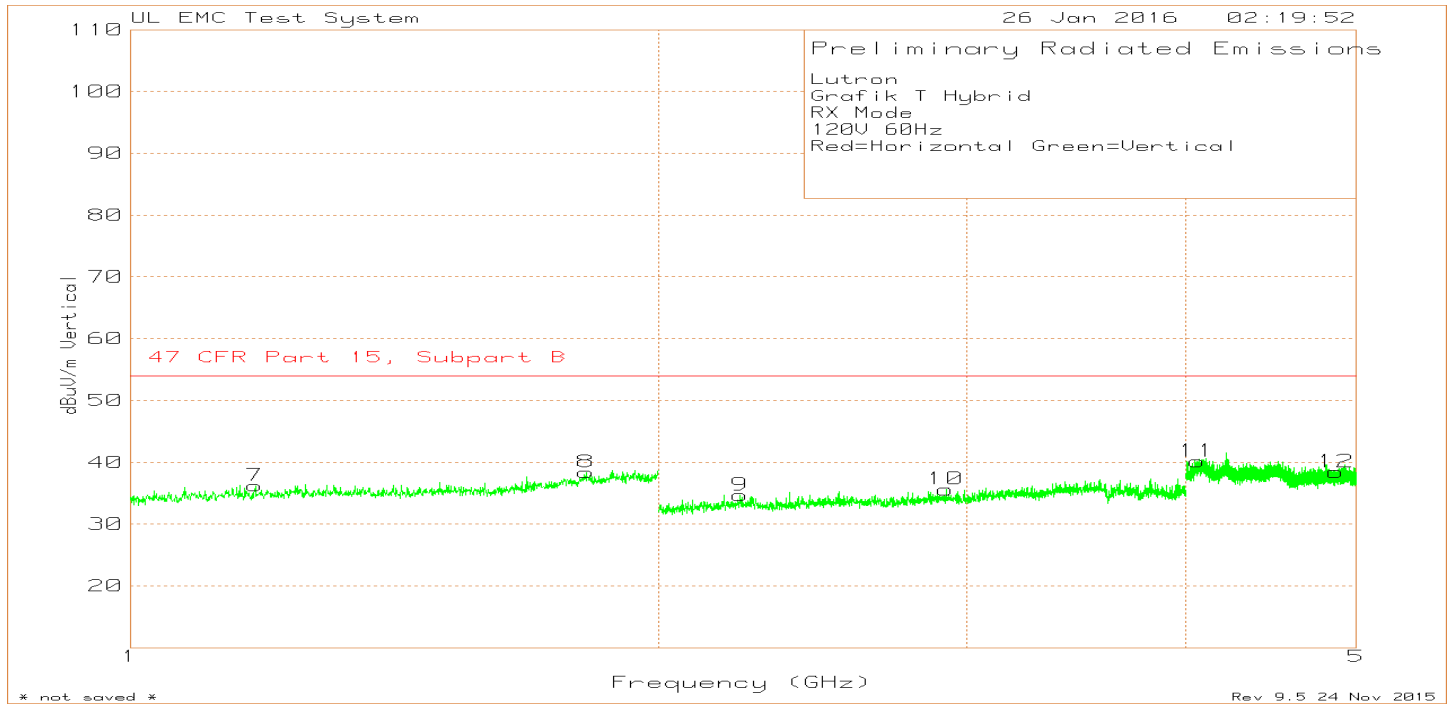
Trace Markers

| No. | Test Frequency (MHz) | Meter Reading | Transducer Factor (dB) | Gain/Loss Factor (dB) | Corrected Reading | Limit:1 dB (uVolts/meter) | 2 | 3 | 4 | 5 | 6 |
|-----|----------------------------|------------------|------------------------------|-----------------------------|----------------------|------------------------------|---|---|---|---|---|
| 1 | 37.7775 | 31.36dBuV Pk | 15 | -19.5 | 26.86 | 40 | - | - | - | - | - |
| | | Azimuth:0-360 | Height:151 | Horz | Margin (dB) | -13.14 | - | - | - | - | - |
| 2 | 166.595 | 31.97dBuV Pk | 14.7 | -18.9 | 27.77 | 43.52 | - | - | - | - | - |
| | | Azimuth:0-360 | Height:151 | Horz | Margin (dB) | -15.75 | - | - | - | - | - |
| 5 | 37.6075 | 30.8dBuV Pk | 15.1 | -19.5 | 26.4 | 40 | - | - | - | - | - |
| | | Azimuth:0-360 | Height:151 | Vert | Margin (dB) | -13.6 | - | - | - | - | - |
| 6 | 165.405 | 30.67dBuV Pk | 14.7 | -18.9 | 26.47 | 43.52 | - | - | - | - | - |
| | | Azimuth:0-360 | Height:151 | Vert | Margin (dB) | -17.05 | - | - | - | - | - |
| 3 | 349.4 | 32.25dBuV Pk | 14.9 | -17.5 | 29.65 | 46.02 | - | - | - | - | - |
| | | Azimuth:0-360 | Height:399 | Horz | Margin (dB) | -16.37 | - | - | - | - | - |
| 4 | 767.8 | 32.35dBuV Pk | 21.6 | -16.2 | 37.75 | 46.02 | - | - | - | - | - |
| | | Azimuth:0-360 | Height:199 | Horz | Margin (dB) | -8.27 | - | - | - | - | - |
| 7 | 348.3 | 30.78dBuV Pk | 14.8 | -17.5 | 28.08 | 46.02 | - | - | - | - | - |
| | | Azimuth:0-360 | Height:399 | Vert | Margin (dB) | -17.94 | - | - | - | - | - |
| 8 | 779.1 | 31.48dBuV Pk | 21.6 | -16.2 | 36.88 | 46.02 | - | - | - | - | - |
| | | Azimuth:0-360 | Height:299 | Vert | Margin (dB) | -9.14 | - | - | - | - | - |

LIMIT 1: CFR 47 Part 15 Class B 3m

Pk - Peak detector

Receive Mode 1GHz – 5GHz Prescan



Receive Mode 30MHz – 1GHz Tabular Data

Lutron
 Grafik T Hybrid
 RX Mode
 120V 60Hz
 Red=Horizontal Green=Vertical

Trace Markers

| Test No. | Frequency (GHz) | Meter Reading | Transducer Factor (dB) | Gain/Loss Factor (dB) | Corrected Reading | Limit:1 dBuV/m | 2 | 3 | 4 | 5 | 6 |
|----------|-----------------|---------------|------------------------|-----------------------|-------------------|----------------|---|---|---|---|---|
| 1 | 1.194 | 69.76dBuV Pk | 25.1 | -57.33 | 37.53 | 54 | - | - | - | - | - |
| | | Azimuth:0-360 | Height:99 | Horz | Margin (dB) | -16.47 | - | - | - | - | - |
| 2 | 1.831 | 66dBuV Pk | 27.1 | -54.66 | 38.44 | 54 | - | - | - | - | - |
| | | Azimuth:0-360 | Height:99 | Horz | Margin (dB) | -15.56 | - | - | - | - | - |
| 3 | 2.213 | 65.2dBuV Pk | 21.8 | -51.62 | 35.38 | 54 | - | - | - | - | - |
| | | Azimuth:0-360 | Height:150 | Horz | Margin (dB) | -18.62 | - | - | - | - | - |
| 4 | 2.901 | 63.69dBuV Pk | 22.6 | -50.36 | 35.93 | 54 | - | - | - | - | - |
| | | Azimuth:0-360 | Height:150 | Horz | Margin (dB) | -18.07 | - | - | - | - | - |
| 5 | 4.05825 | 64.37dBuV Pk | 28.4 | -51.69 | 41.08 | 54 | - | - | - | - | - |
| | | Azimuth:0-360 | Height:100 | Horz | Margin (dB) | -12.92 | - | - | - | - | - |
| 6 | 4.87325 | 62.89dBuV Pk | 27.7 | -50.86 | 39.73 | 54 | - | - | - | - | - |
| | | Azimuth:0-360 | Height:149 | Horz | Margin (dB) | -14.27 | - | - | - | - | - |
| 7 | 1.178 | 68.52dBuV Pk | 25.1 | -57.38 | 36.24 | 54 | - | - | - | - | - |
| | | Azimuth:0-360 | Height:150 | Vert | Margin (dB) | -17.76 | - | - | - | - | - |
| 8 | 1.82 | 66.04dBuV Pk | 27.1 | -54.74 | 38.4 | 54 | - | - | - | - | - |
| | | Azimuth:0-360 | Height:150 | Vert | Margin (dB) | -15.6 | - | - | - | - | - |
| 9 | 2.227 | 64.26dBuV Pk | 21.8 | -51.37 | 34.69 | 54 | - | - | - | - | - |
| | | Azimuth:0-360 | Height:150 | Vert | Margin (dB) | -19.31 | - | - | - | - | - |
| 10 | 2.918 | 63.25dBuV Pk | 22.6 | -50.23 | 35.62 | 54 | - | - | - | - | - |
| | | Azimuth:0-360 | Height:99 | Vert | Margin (dB) | -18.38 | - | - | - | - | - |
| 11 | 4.059 | 63.43dBuV Pk | 28.4 | -51.69 | 40.14 | 54 | - | - | - | - | - |
| | | Azimuth:0-360 | Height:150 | Vert | Margin (dB) | -13.86 | - | - | - | - | - |
| 12 | 4.87 | 61.65dBuV Pk | 27.7 | -50.9 | 38.45 | 54 | - | - | - | - | - |
| | | Azimuth:0-360 | Height:99 | Vert | Margin (dB) | -15.55 | - | - | - | - | - |

LIMIT 1: 47 CFR Part 15, Subpart B
 Pk - Peak detector

9. AC MAINS LINE CONDUCTED EMISSIONS

LIMITS

§15.207 (a)
IC RSS-GEN, Section 7.2.2

| Frequency of emission (MHz) | Conducted Limit (dB μ V) | |
|--------------------------------|------------------------------|-----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56* | 56 to 46* |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

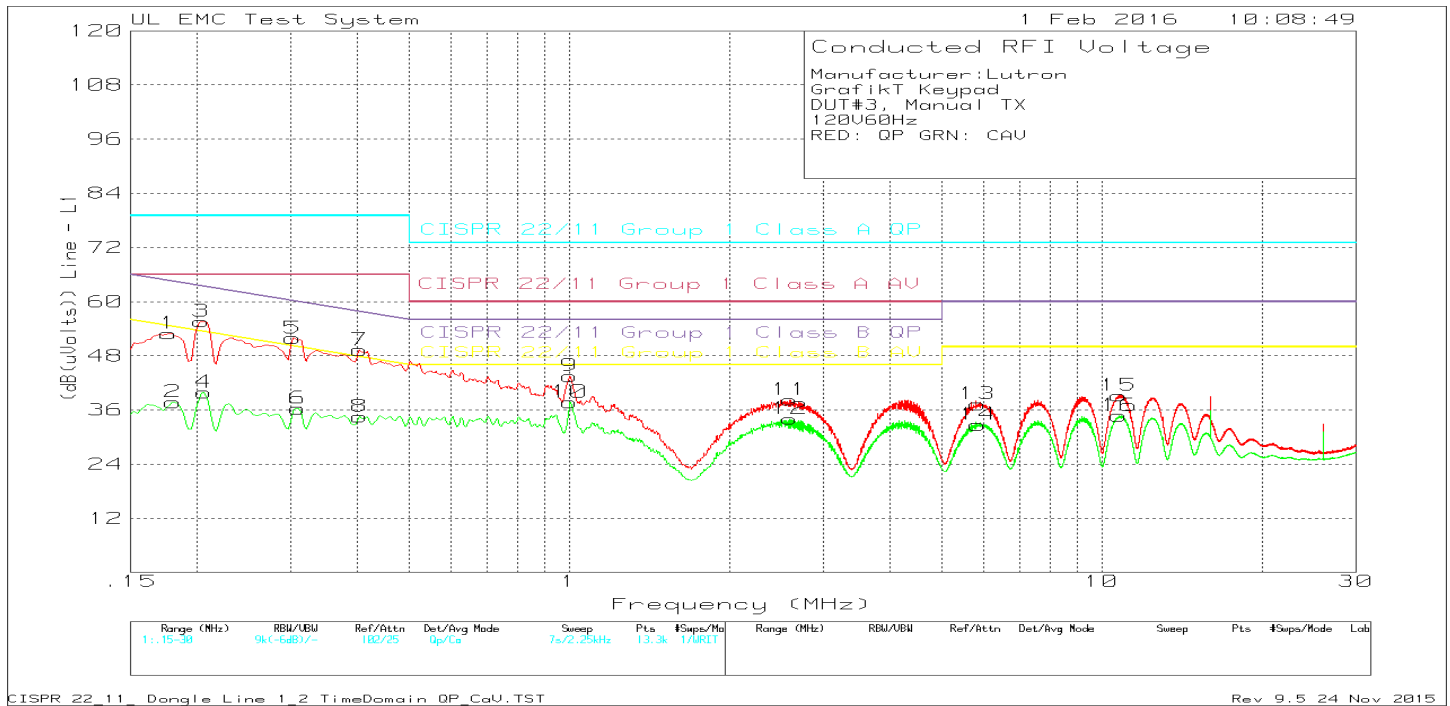
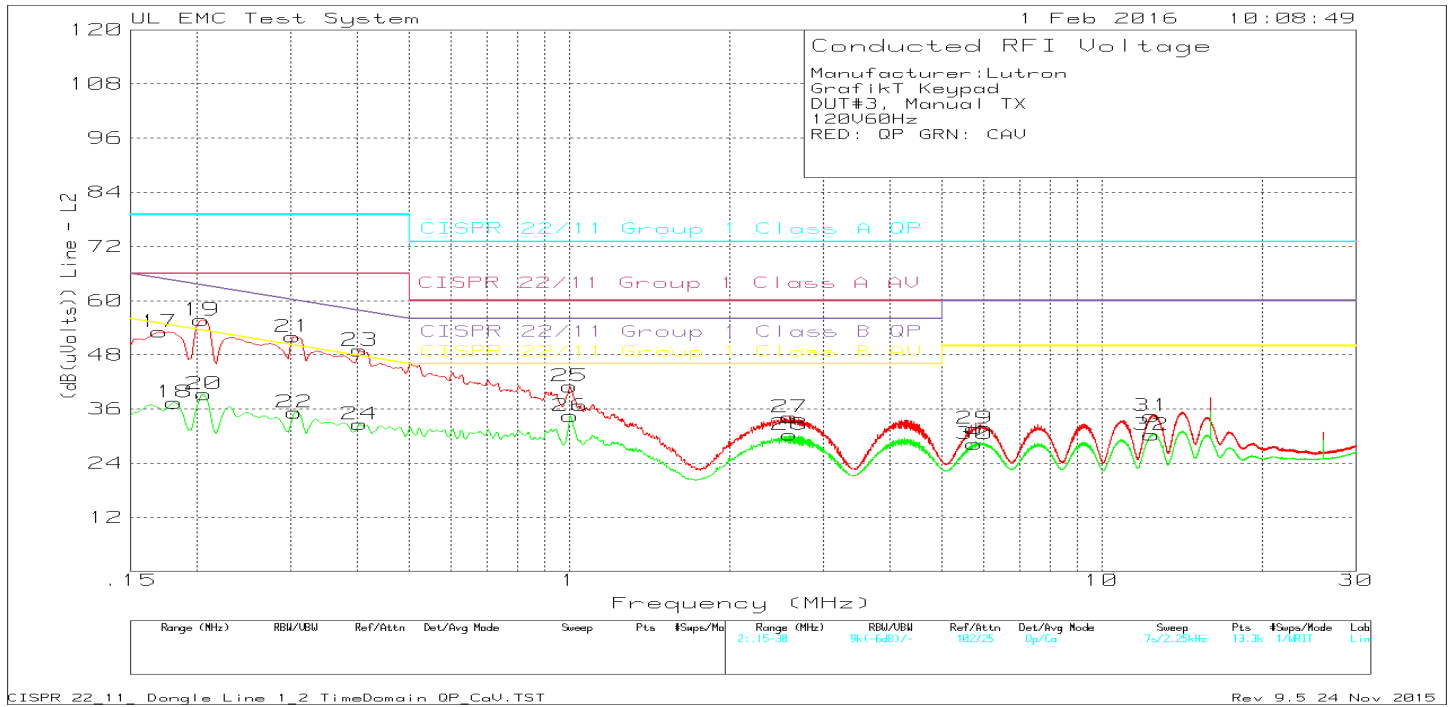
ANSI C63.10

RESULTS

No non-compliance noted:

Conducted Emissions

Line and Neutral Prescan TX/RX



Line and Neutral Data

Manufacturer:Lutron
 Grafikt Keypad
 DUT#3, Manual TX
 120V60Hz
 RED: QP GRN: CAV

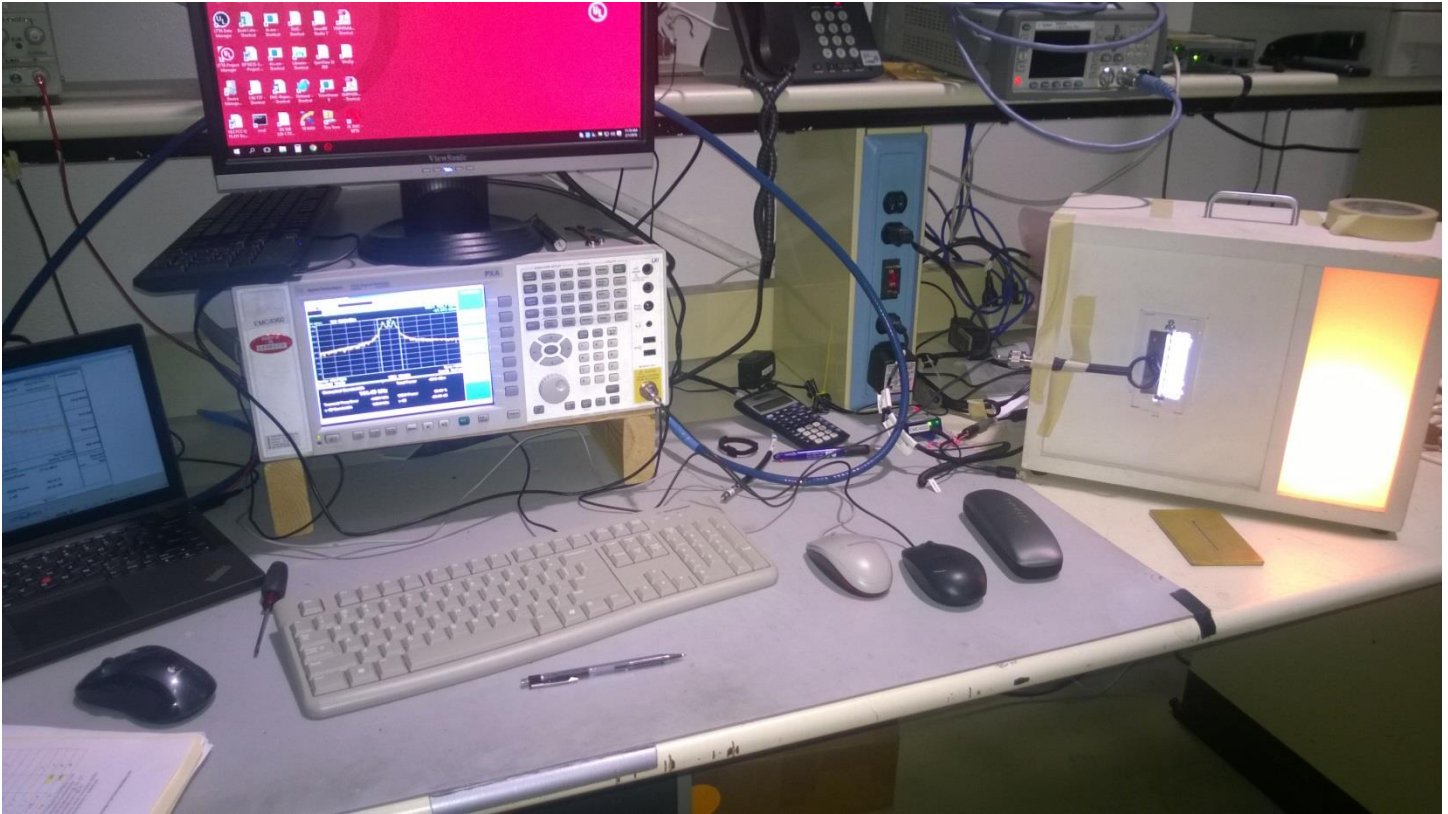
| Trace Markers | Test | Meter | Transducer | Gain/Loss | Corrected | Limit:1 | 2 | 3 | 4 | 5 | 6 |
|---------------|-----------|-----------|------------|-----------|----------------------|-------------|--------|--------|--------|--------|---|
| No. | Frequency | Reading | Factor | Factor | Reading (dB(uVolts)) | | | | | | |
| | (MHz) | | (dB) | (dB) | | | | | | | |
| ----- | | | | | | | | | | | |
| Line | | | | | | | | | | | |
| 1 | .177 | 40.83dBuV | Qp | .1 | 12 | 52.93 | 79 | - | 64.63 | - | - |
| | | | | | | Margin (dB) | -26.07 | - | -11.7 | - | - |
| 2 | .18038 | 25.72dBuV | Ca | .1 | 11.9 | 37.72 | 66 | - | 54.47 | - | - |
| | | | | | | Margin (dB) | - | -28.28 | - | -16.75 | - |
| 3 | .204 | 44.13dBuV | Qp | .1 | 11.4 | 55.63 | 79 | - | 63.45 | - | - |
| | | | | | | Margin (dB) | -23.37 | - | -7.82 | - | - |
| 4 | .20625 | 28.38dBuV | Ca | .1 | 11.4 | 39.88 | 66 | - | 53.35 | - | - |
| | | | | | | Margin (dB) | - | -26.12 | - | -13.47 | - |
| 5 | .303 | 41dBuV | Qp | .1 | 10.8 | 51.9 | 79 | - | 60.16 | - | - |
| | | | | | | Margin (dB) | -27.1 | - | -8.26 | - | - |
| 6 | .30975 | 25.42dBuV | Ca | .1 | 10.8 | 36.32 | 66 | - | 49.98 | - | - |
| | | | | | | Margin (dB) | - | -29.68 | - | -13.66 | - |
| 7 | .40425 | 38.48dBuV | Qp | .1 | 10.7 | 49.28 | 79 | - | 57.77 | - | - |
| | | | | | | Margin (dB) | -29.72 | - | -8.49 | - | - |
| 8 | .40425 | 23.74dBuV | Ca | .1 | 10.7 | 34.54 | 66 | - | 47.77 | - | - |
| | | | | | | Margin (dB) | - | -31.46 | - | -13.23 | - |
| 9 | 1.00275 | 32.82dBuV | Qp | .1 | 10.6 | 43.52 | 73 | - | 56 | - | - |
| | | | | | | Margin (dB) | -29.48 | - | -12.48 | - | - |
| 10 | 1.00275 | 27.01dBuV | Ca | .1 | 10.6 | 37.71 | 60 | - | 46 | - | - |
| | | | | | | Margin (dB) | - | -22.29 | - | -8.29 | - |
| 11 | 2.59575 | 27.56dBuV | Qp | .1 | 10.6 | 38.26 | 73 | - | 56 | - | - |
| | | | | | | Margin (dB) | -34.74 | - | -17.74 | - | - |
| 12 | 2.59575 | 23.34dBuV | Ca | .1 | 10.6 | 34.04 | 60 | - | 46 | - | - |
| | | | | | | Margin (dB) | - | -25.96 | - | -11.96 | - |
| 13 | 5.847 | 26.38dBuV | Qp | .1 | 10.8 | 37.28 | 73 | - | 60 | - | - |
| | | | | | | Margin (dB) | -35.72 | - | -22.72 | - | - |
| 14 | 5.85375 | 21.85dBuV | Ca | .1 | 10.8 | 32.75 | 60 | - | 50 | - | - |
| | | | | | | Margin (dB) | - | -27.25 | - | -17.25 | - |
| 15 | 10.77225 | 27.78dBuV | Qp | .4 | 11 | 39.18 | 73 | - | 60 | - | - |
| | | | | | | Margin (dB) | -33.82 | - | -20.82 | - | - |
| 16 | 10.7745 | 23.31dBuV | Ca | .4 | 11 | 34.71 | 60 | - | 50 | - | - |
| | | | | | | Margin (dB) | - | -25.29 | - | -15.29 | - |
| ----- | | | | | | | | | | | |
| Neutral | | | | | | | | | | | |
| 17 | .17025 | 40.71dBuV | Qp | .1 | 12.3 | 53.11 | 79 | - | 64.95 | - | - |
| | | | | | | Margin (dB) | -25.89 | - | -11.84 | - | - |
| 18 | .1815 | 25.33dBuV | Ca | .1 | 12 | 37.43 | 66 | - | 54.42 | - | - |
| | | | | | | Margin (dB) | - | -28.57 | - | -16.99 | - |
| 19 | .204 | 44.07dBuV | Qp | .1 | 11.5 | 55.67 | 79 | - | 63.45 | - | - |
| | | | | | | Margin (dB) | -23.33 | - | -7.78 | - | - |
| 20 | .20625 | 27.71dBuV | Ca | .1 | 11.5 | 39.31 | 66 | - | 53.35 | - | - |
| | | | | | | Margin (dB) | - | -26.69 | - | -14.04 | - |
| 21 | .303 | 40.94dBuV | Qp | .1 | 11 | 52.04 | 79 | - | 60.16 | - | - |
| | | | | | | Margin (dB) | -26.96 | - | -8.12 | - | - |
| 22 | .30525 | 24.26dBuV | Ca | .1 | 10.9 | 35.26 | 66 | - | 50.1 | - | - |
| | | | | | | Margin (dB) | - | -30.74 | - | -14.84 | - |
| 23 | .40425 | 38.04dBuV | Qp | .1 | 10.8 | 48.94 | 79 | - | 57.77 | - | - |
| | | | | | | Margin (dB) | -30.06 | - | -8.83 | - | - |
| 24 | .40425 | 21.77dBuV | Ca | .1 | 10.8 | 32.67 | 66 | - | 47.77 | - | - |
| | | | | | | Margin (dB) | - | -33.33 | - | -15.1 | - |
| 25 | 1.00275 | 30.24dBuV | Qp | .1 | 10.7 | 41.04 | 73 | - | 56 | - | - |
| | | | | | | Margin (dB) | -31.96 | - | -14.96 | - | - |
| 26 | 1.005 | 23.64dBuV | Ca | .1 | 10.7 | 34.44 | 60 | - | 46 | - | - |
| | | | | | | Margin (dB) | - | -25.56 | - | -11.56 | - |
| 27 | 2.59575 | 23.43dBuV | Qp | .1 | 10.7 | 34.23 | 73 | - | 56 | - | - |
| | | | | | | Margin (dB) | -38.77 | - | -21.77 | - | - |
| 28 | 2.59575 | 19.51dBuV | Ca | .1 | 10.7 | 30.31 | 60 | - | 46 | - | - |
| | | | | | | Margin (dB) | - | -29.69 | - | -15.69 | - |
| 29 | 5.7705 | 20.68dBuV | Qp | .1 | 10.9 | 31.68 | 73 | - | 60 | - | - |
| | | | | | | Margin (dB) | -41.32 | - | -28.32 | - | - |
| 30 | 5.7705 | 17.27dBuV | Ca | .1 | 10.9 | 28.27 | 60 | - | 50 | - | - |
| | | | | | | Margin (dB) | - | -31.73 | - | -21.73 | - |
| 31 | 12.408 | 22.47dBuV | Qp | .8 | 11.2 | 34.47 | 73 | - | 60 | - | - |
| | | | | | | Margin (dB) | -38.53 | - | -25.53 | - | - |
| 32 | 12.40125 | 18.27dBuV | Ca | .8 | 11.2 | 30.27 | 60 | - | 50 | - | - |
| | | | | | | Margin (dB) | - | -29.73 | - | -19.73 | - |

LIMIT 1: CISPR 22/11 Group 1 Class A QP
 LIMIT 2: CISPR 22/11 Group 1 Class A AV
 LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

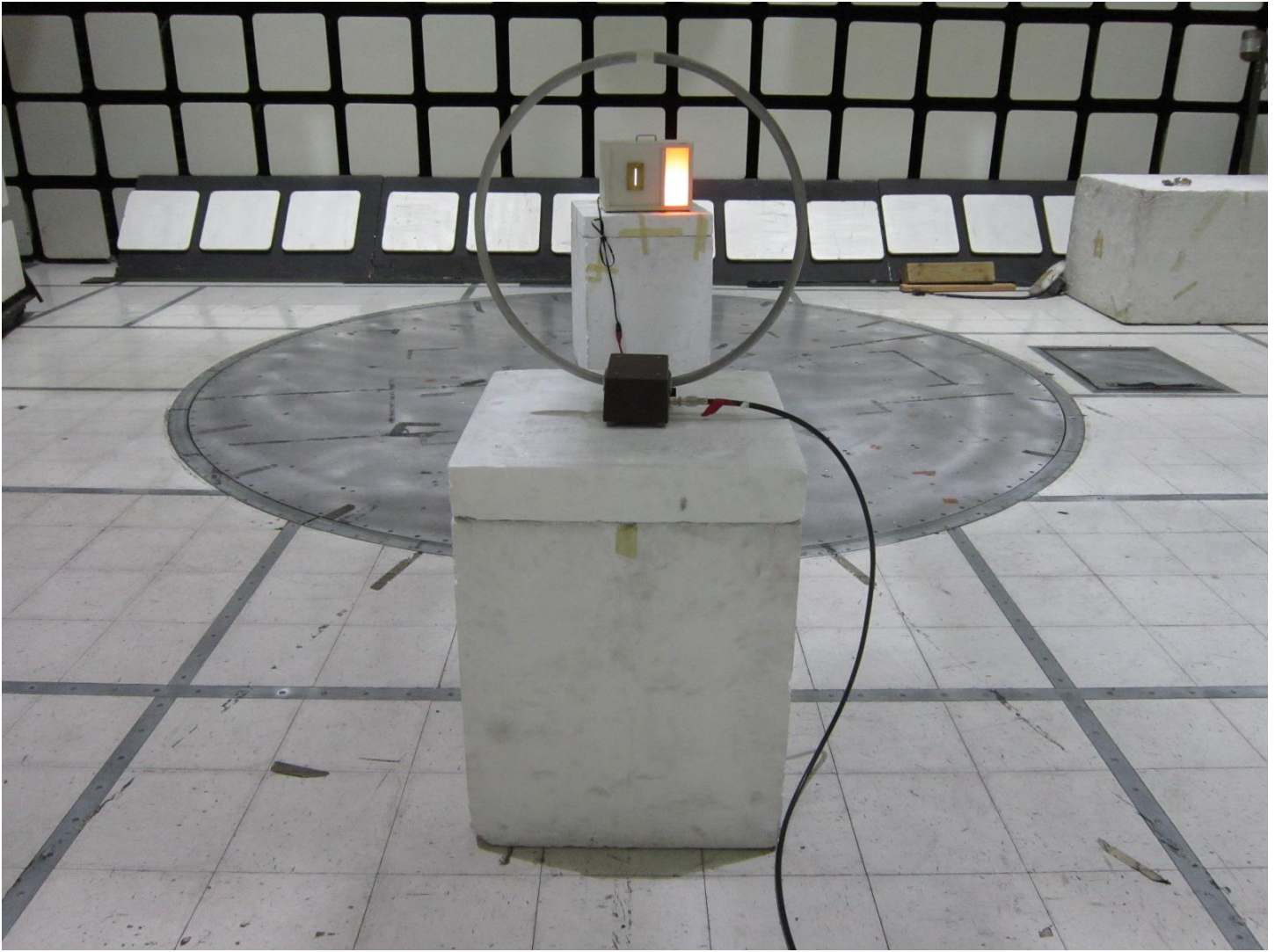
Qp - Quasi-Peak detector
 Ca - CISPR Average detection

10. SETUP PHOTOS

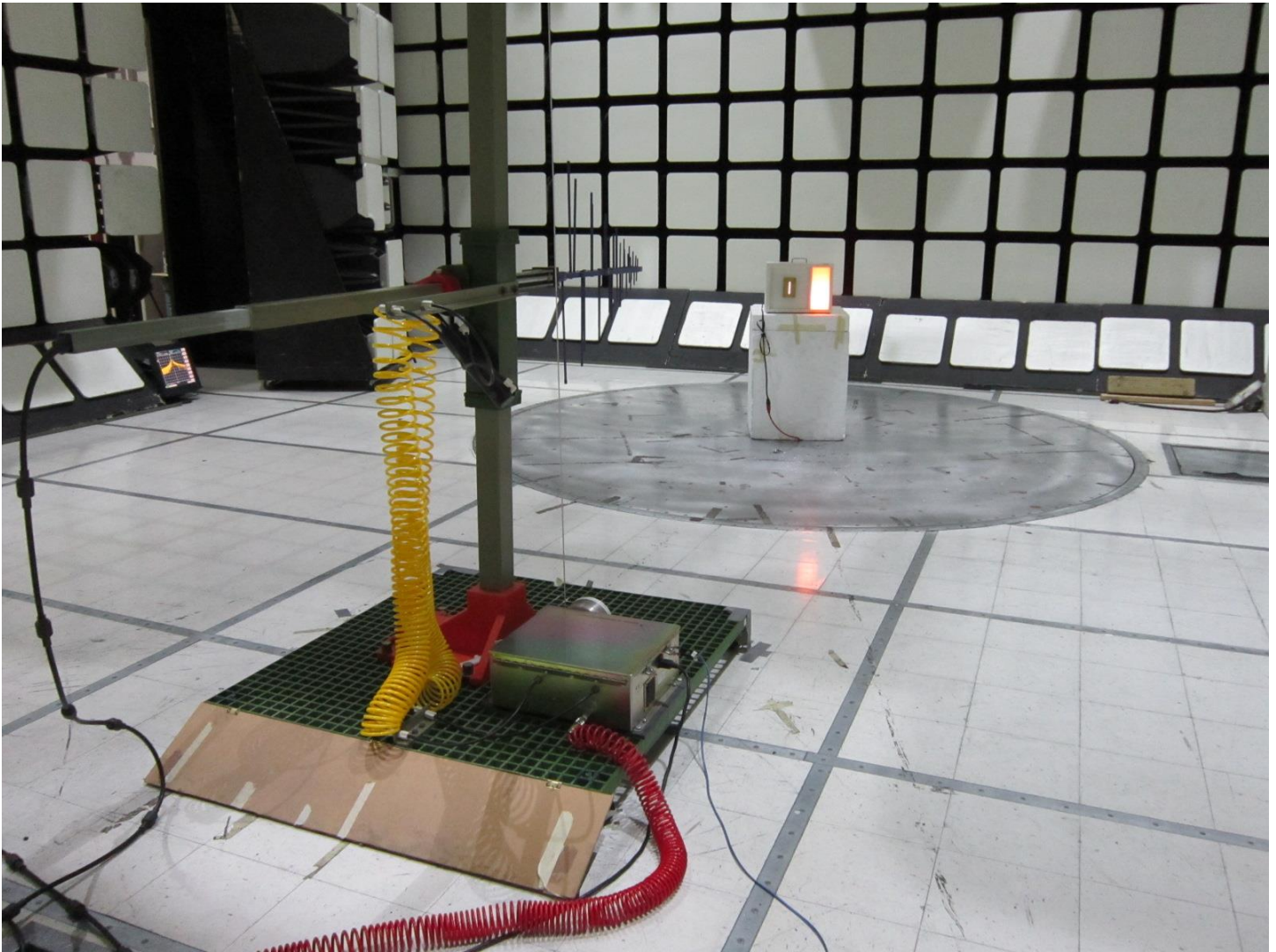
NEARFIELD MEASUREMENTS



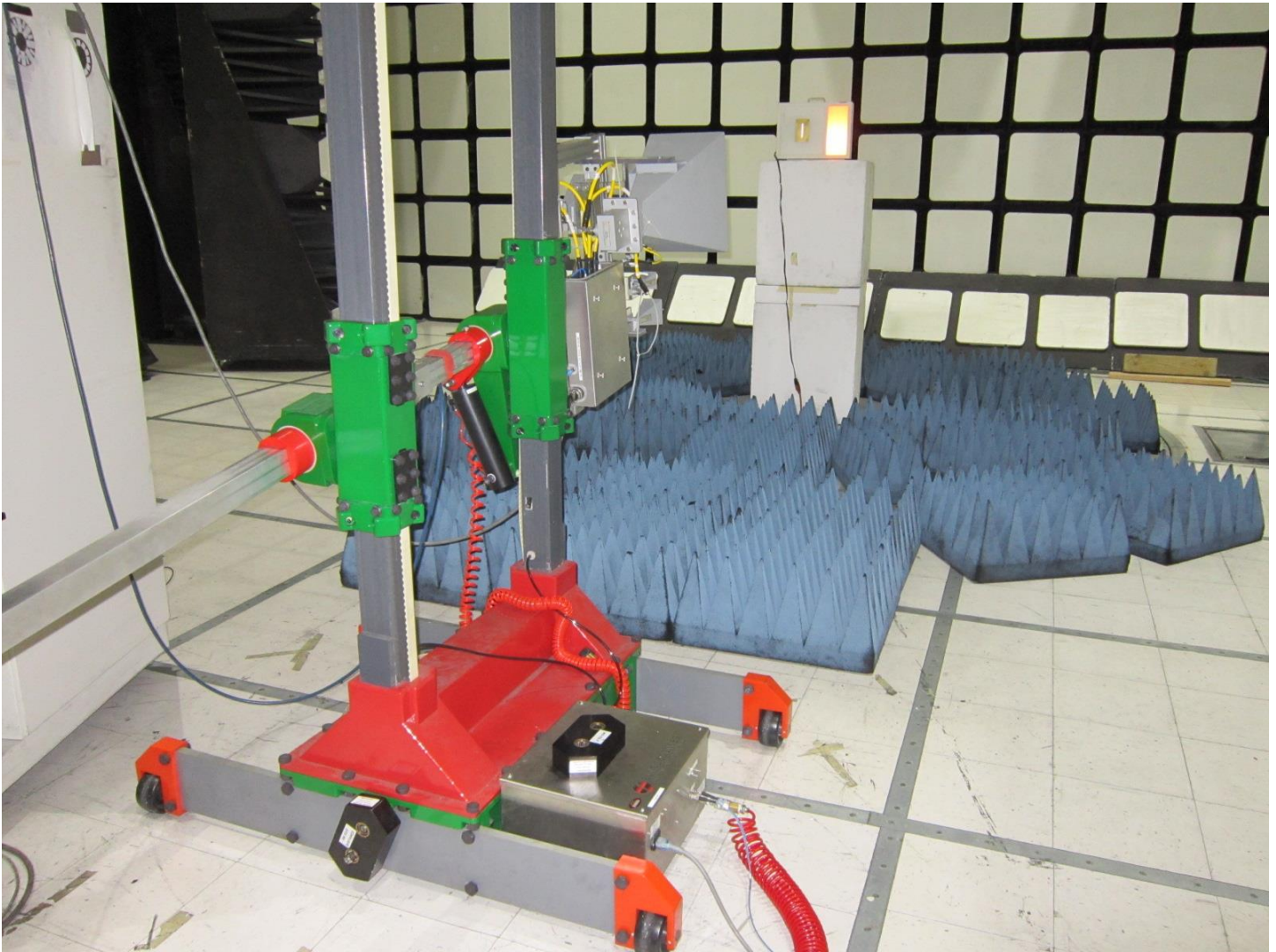
RADIATED EMISSION CONFIGURATION Below 30MHz



RADIATED EMISSION CONFIGURATION Below 1GHz



RADIATED EMISSION CONFIGURATION Above 1GHz



LINE CONDUCTED EMISSIONS



END OF REPORT